

Mineralogy & Crystallography:  
An Annotated Biobibliography of Books  
Published 1469 through 1919

By  
Curtis P. Schuh

Volume II

Tucson, Arizona  
2007



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**Library of Congress Cataloging-in-Publication Data**

Schuh, Curtis Paul, 1959- .  
Mineralogy and crystallography: an annotated biobibliography  
of books published 1469 through 1919 / Curtis P. Schuh.  
v. p. cm.  
Includes bibliographical references.  
Contents:  
ISBN X-XXX-XXXX-XXX  
1. Mineralogy--bibliography 2. Crystallography--bibliography  
3. Mineralogists--biography 4. Crystallographers--biography  
ZQ????.?? 2007  
CIP

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9 8 7 6 5 4 3 2 1

IANCOULESCO, Aurel P. *Roumanian geologist.*

**2375. — French, 1928.**

Les Richesses Minières de la Nouvelle Roumanie. Paris, Gamber, 1928.

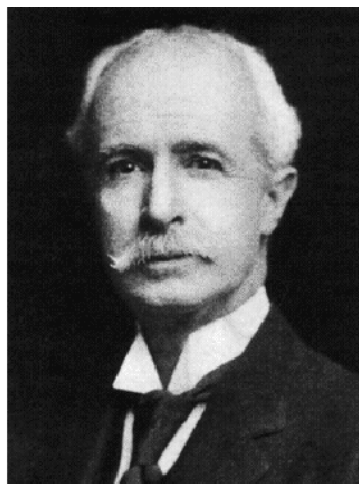
8°: 380 p., 2 plates. Originally presented as the authors doctoral thesis (Paris) under the title: *Roumanie Nouvelle et ses Richesses Minières*. Bibliography: p. [355]-369.

VERY SCARCE. Topographical mineralogy describing the mineral resources and minerals of Roumania.

REFERENCES: *Die Naturwissenschaften*: 1929, p. 138. • *Mineralogical Abstracts*: 1931, p. 180. • NUC. • Spencer, *Catalogue of Topographical Mineralogies*, 1948: p. 315.

IBN SĪNĀ, Abū 'Alī al-Ḥusain ibn 'Abdallāh.

See: *Avicenna*.



IDDINGS

**IDDINGS, Joseph Paxson.** (BORN: Baltimore, Maryland, U.S.A., 21 January 1857; DIED: Montgomery County Hospital, Maryland, U.S.A., 8 September 1920) *American petrologist & mineralogist.*

Iddings moved to Orange, New Jersey at age of 10. In 1877, he graduated from the Sheffield Scientific School of Yale University, where he became interested in mineralogy and petrology. He traveled to Europe, becoming a student from 1879 to '80 of Harry Rosenbusch [1836-1914] at the University of Heidelberg. Upon returning to America in 1880, he went to work for U.S. Geological Survey. There he helped survey the Eureka district of Nevada and Yellowstone National Park. Iddings accepted an appointment as professor of petrology at the University of Chicago in 1895, where he remained until 1908. Then Iddings retired to a private life of scholarship.

REFERENCES: ABA: I 820, 65-72. • *American Journal of Science*: 4th Series, **200** (1920), 316. • Barr, *Index to Biographical Fragments*, 1973: 131. • *Bulletin of the Geological Society of America*: **44** (1933), 352-74. • DAB: **5**, 457-58. • DSB: **7**, 5-6 [by H.S. Yoder]. • Elliott, *Biographical Index*, 1990: 116. • *Herringshaw's National Library of American Biography*. • Lambrecht & Quenstedt, *Catalogus*, 1938: 217. • *National Academy of Science Biographical Memoirs*: **69** (1996), 114-47, portrait. • *Obituary Record of Yale*

## ROCK MINERALS

Their Chemical and Physical Characters and  
their Determination in Thin Sections

BY  
JOSEPH P. IDDINGS

FIRST EDITION  
FIRST THOUSAND

NEW YORK  
JOHN WILEY & SONS  
LONDON: CHAPMAN & HALL, LIMITED  
1906

ROCK MINERALS, 1906

*Graduates*. • Sarjeant, *Geologists*, 1980: **2**, 1367-8. • WBI. • *World Who's Who in Science*: 854.

**2376. — English, 1906** [First edition].

Rock Minerals | Their Chemical and Physical  
Characters and | their Determination in Thin  
Sections | By | Joseph P. Iddings | First Edition  
| First Thousand | New York | John Wiley & Sons  
| London: Chapman & Hall, Limited | 1906.

8°: [i]-xii, [1]-548 p., 2 plates (one colored), illus., folding diagram (p. 204). PAGE SIZE: 228 x 146 mm.

CONTENTS: [i-ii], Title page, verso "Copyright, 1906."; iii-v, "Preface."—signed Joseph P. Iddings, 2 October 1906.; [vi], Blank.; [vii]-xii, "Contents."; [1]-526, Text.; [527], Sectional title page, "Tables."; [528], Blank.; 529-541, Tables of minerals with determination characteristics.; [542], Blank.; 543-548, "Index."

SCARCE. The advance of petrology during the late nineteenth century is clear in Iddings textbook. Here the emphasis is on determining the mineral species that make up rock aggregates. The numerous illustrations show apparatus, diagrams and many excellent crystal drawings probably copied from Dana's Sixth Edition, which was also a Wiley publication.

REFERENCES: Dana's 7th (Bibliography): p. 74. • NUC. • *USGS Library Catalog*.

**2377. 2nd edition, 1911:** Rock Minerals: their chemical and physical characters and their determination in Thin Sections ... Second edition. New York & London, 1911.

8°: xiii, 627 p., 1 plate (colored), 2 diagrams, illus. VERY SCARCE.

REFERENCES: BMC: **6**, 498. • Dana's 7th (Biblio-

## IMPERATO

graphy): 74. • NUC. • *USGS Library Catalog*.

**IGELSTRÖM, Lars Johann.** (BORN: Yngshyttan near Persberg, Värmland, Sweden, 10 February 1822; DIED: Gräs, Sunnemo parish, Värmland, Sweden, 15 May 1897) *Swedish geologist & mineralogist*.

Studied Bergsskolan Filipstad 1841-42 with special vitsord in mineralogy and chemistry. Studied further chemistry at the laboratory of L. F. Svanberg 1844. Worked in Finland as fieldgeologist at gold-expeditions to Kuusamo. Back in Sweden scholarship at Jernkontoret to 1857. Mineralogical travels in Sweden during field seasons where followed up with winters in laboratory. He described several new minerals from the phosphate bearing quartzite at Horrsjöberg, Värmland. Moved 1859 back to his family home at Persberg, where he stayed until 1871. During this time I. continued his scientific work even though he had no official position. Especially the mineral recourses of Värmland was investigated. Igelström recognized hausmannite and braunite in the Långban-type manganese ore deposits Långban, Nordmark and Pajsberg and described oddities such as native lead, monimolite, manganophyllite, pyroaurite etc. from these localities. He even recognized a new Långban-type deposit; Sjögruvan in Grythytte parish After I's move to Gräs 1871 follows an idle period regarding his scientific work. The reason for this was that I was more heavily involved in farming both at his family home and his new home that came into the family via his wife. Also, Gräs was much more peripheral to the mining areas of Värmland when comparing to his earlier, central position in Persberg. In the 1880's he resumed his mineralogical investigations, especially from Sjögruvan from which he described several new species (today many of these have been discredited).

Igelströms accomplishments has to be judged in the light of his own time. Doing that he stands out as one of the major swedish mineralogists. He was extremely productive and published more than 100 articles and short notes in geology and mineralogy in the major swedish journals of the time many of these went out in translated versions in several german and french scientific journals.

REFERENCES: Axel Hamberg, "Lars Johan Igelström" *Geologiska Föreningen i Stockholms Förhandlingar*: vol 19, pp. 498-508.

REFERENCES: *Geologiska Föreningens i Stockholm Förhandlingar*: 19, 498-508 [by A. Hamberg]. • Sarjeant, *Geologists*, 1980: 1, ??.

**2378. — Swedish, 1850** [First edition].

Elementar-Lärobok i Mineralogi omfattande svenska mineralriket. Filipstad, 1850.

8°: VERY SCARCE.

REFERENCES: NUC: [no copy listed].

**2379. — Swedish, 1858** [First edition].

Mineralogisk vägvisare | i Wermland. | af | L.I. Igelström. | [ornate rule] | Stockholm. | Albert Bonniers Förlag, | 1858.

8°: [1]<sup>8</sup> 24; 12 $\ell$ .; [1]-24 p. VERY SCARCE.

CONTENTS: [1]-2], Title page, verso "Stockholm. Hörbergskas boktryckeriet, 1858."; [3]-22, Text.; [23-24], Editors advertisement.

REFERENCES: NUC: [no copy listed].

**2380. — Swedish, 1871.**

Mineralogisk vägvisare i Wermland. Karlstad, 1871.

8°: 46 p. RARE.

REFERENCES: BMC: 2, 900. • NUC: [no copy listed].

**2381. 1861:** Sveriges jern-, koppar-, silver-, kobolt-, zink-, m. fl. malmer, deras allmänna förekomstsätt, deras igenkänningstecken och deras profvande etc. Karlstad, 1861.

8°: VERY SCARCE.

REFERENCES: NUC: [no copy listed].

**2382. 2nd edition, 1872:** Sveriges malmer och nyttiga mineralier, | deras förekomstsätt, igenkänningstecken, | profvande och uppsökande. | af | L.J. Igelström. | [rule] | andra genomsedda och tillökta upplagan. | [rule] | Örebro, 1872. | Abr. Bohlins boktryckeri.

8°:  $\pi^2$  1-78 8<sup>4</sup>; 62 $\ell$ .; [i]-iv, 119, [1] p. VERY SCARCE.

CONTENTS: [i-ii], Title page, verso blank.; [iii]-iv, Contents.; [1]-2, Forward to first and second editions.; [3]-119, Text.; [1 pg], Blank.

REFERENCES: NUC: [no copy listed].

**IMPERATO, Ferrante.** (BORN: Naples, Italy, c1550; DIED: Naples, Italy, c1631) *Italian naturalist & pharmacist*.

Little is known of Imperato's life. He owned a prosperous pharmacy in Naples, and founded the botanical gardens of city. Imperato also corresponded with many of the famous naturalists of the time, including Aldrovandi, Bauhin, Clusius, Mattioli. His son, Francesco, a lawyer, inherited the collections. His numerous travels in southern Italy allowed him to collect many mineral exemplary, vegetables and animals, and to make many detailed observations on geological outcrops.

REFERENCES: ABI: I 535, 100-112. • Accordi, B., "Ferrante Imperato (Napoli, 1550-1625) e il suo contributo alla storia della geologia," *Geologica Roma*, 20 (1980), 43-56, 6 figs. • *Biographie Universelle*. • Capellini, G., "Cenni storici sulla paleontologia e geologia," *Rivista Italiana di Paleontologia e Stratigrafia*, 7 (1901), 89-103. • Columella Onorati, N., "Biografia di Imperato," *Biografia degli uomini illustri del Regno di Napoli*, 8 (1822). • Cortesi, F., "Alcune lettere inedite di Ferrante Imperato," *Annali di Botanica*, 6 (1908), 121-30. • Hunt Portrait Catalog: 189. • Jöcher, *Gelehrten-Lexikon*, 1750-51. • Lambrecht & Quenstedt, *Catalogus*, 1938: 218. • *Nouvelle Biographie Générale* (Hoefer). • Neviani, A., "Ferrante Imperato, speziale e naturalista Napoletano, con documenti inediti," *Atti e Mem. Acc. Storia dell'Arte Sanitaria, Memorie*, Roma, Series 2, 2, 57-74, 124-145, 199-210 & 243-267. • Sarjeant, *Geologists*, 1980: 2, 1369 & Suppl. 1 (1987), 1, 521. • WBI. • *World Who's Who in Science*: 855.

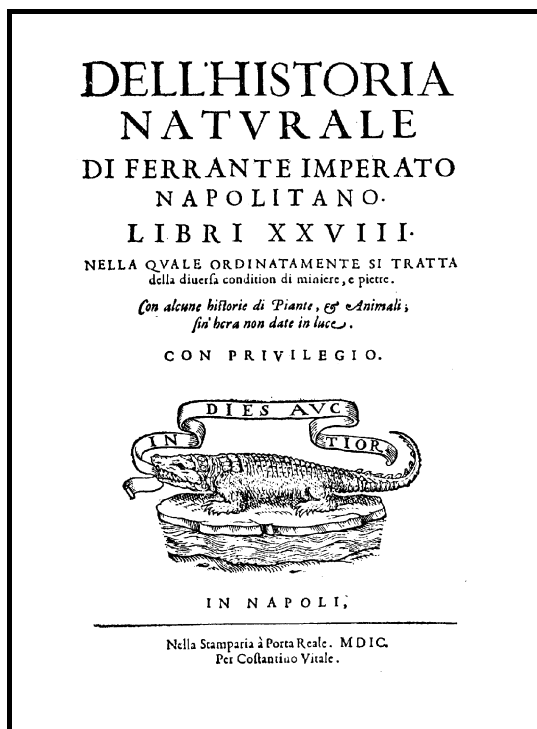
**2383. — Italian, 1599** [First edition].

Dell'Historia | Natvrale | Di Ferrante Imperato | Napolitano. | Libri XXVIII. | Nella Qvale Ordinatamente Si Tratta | della diuersa condition di miniere, e pietre. | Con alcune historie di Piante, & Animal; | sin'hora non date in luce. | Con Privilegio. | [ornament] | In Napoli, | [rule] | Nella Stamparia à Porta Reale. MDIC. | Per Costantino Vitale.

2°: a<sup>2</sup> b<sup>6</sup> c<sup>4</sup> A-Z<sup>6</sup> 2A-2Z<sup>6</sup> 3A-3V<sup>6</sup> (B<sub>2</sub> missigned B<sub>3</sub>); 408 $\ell$ .; [24], [1]-791, [1] p., 126 woodcuts in text, double-page woodcut frontispiece. Pages 229-234 omitted in numbering; pages 249-254 repeated in numbering. PAGE SIZE: 295 x 204 mm.

CONTENTS: [2 pgs], Title page, verso blank.; [2 pgs], Dedication.; [Folding frontispiece].; [18 pgs], "Svmario Et Indice."; [2 pgs], "Ferrante Imperato | A Gli Lettori."; [1]-791, Text.; [1 pg], Blank.

VERY SCARCE. A highly interesting and splendidly illustrated publication dealing with natural history,



DELL'HISTORIA NATVRALE, 1599

including botany, mineralogy, metallurgy, mining, zoology, etc. The dedication is to Juan Fernñdez de Velasco, duque de Frías. In his address to the reader, Imperato names Niccolò Antonio Stigliola as having consulted on the text. Thorndike believes Stigliola to be the actual author. On the question of authorship see V. Placcius, *Theatrum anonymorum et pseudonymorum*, 2 (Hamburg, 1708), p. 379, no. 1430. See also Murray, D. (1904). There are 126 woodcuts in the text. These are of gems, plants, sea creatures, reptiles, and insects. Mortimer suggests Mario Cartaro as artist of these blocks. First edition printed in a small edition for friends of Imperato. The striking double-page frontispiece shows his magnificent library and museum, a vast collection of prepared animals (i.e., birds, fish, insects, and a huge crocodile fastened to the ceiling) and several shelves of books. The text woodcuts show plants, animals, minerals, etc.

Of further interest is the theory, introduced by Thorndike and based on two 17th century bibliographies that the actual author of the book was not Imperato but Antonio Nicolo Stelliola (or Stigliola) [????], friend and disciple of Galilei and author of the earliest treatises on the construction of the telescope (1627). For an excellent detailed description of the book with illustr see Ruth Mortimer, *Harvard College Italian 16th Century Books II*, 240, note NBG XXV, col 831.

REFERENCES: Adams, *Cambridge Books*, 1967: I-184. • Beekman, *Systematische Mineralogie*, 1906: 28-9. • BMC: 2, 902. • *Freilich Sale Catalog*: no. 262. • Hoover Collection: no. 440. • LKG: III 35 & 36a. • Mortimer *Italian Books*:

no. 240. • Murray, *Museums*, 1904: 1, 85. • Nissen (ZBI): no. 1112. • NUC: 265, 205 [NI 0041485]. • Olmi, G., "Science-Honor-Metaphor: Italian cabinets of the sixteenth and seventeenth centuries," in: O. Impey and A. Macgregor, eds., *The Origins of Museums*. Oxford, 1985, 12-15. • Pritzel, *Thesaurus Literaturæ Botanicae*, 1871-3: no. 4433. • Schröter's *Journal für die Liebhaber*: 2, 85. • Wellcome Catalog (Books): 1, no. 3393. • Wilson, *History of Mineral Collecting*, 1994: 19, 36-8 & 214. • Wood, *Literature of Vertebrate Zoology*, 1931: 398.



HISTORIA NATVRALE, 1672

2384. 2nd edition, 1672: [In red:] *Historia* | [in black:] *Natvrale* | [in red:] *Di Ferrante Imperato* | [in black:] *Napolitano*. | *Nella quale Ordinatamente | si tratta |* [in red:] *Della diuersa condition di Minere, Pietre pretiose, & | altre curiosità. Con varie Historie di Piante, | & Animalì, fin' hora non date in luce.* | [in black:] *In questa Seconda Impressione aggiuntou da Gio: Maria Ferro | Spetiale alla Sanità, alcune Annotationi alle | Piantie nel Libro vigesimo ottauo.* | [rule] | *Dedicata All' Altezza Ser.ma* | [in red:] *Di Giovan Federico* | [in black:] *DVca di Brvnsvick, et Lvnenvbvg.* | [vignette] | [in red:] *Venetia* | [in black, rule:] | *Presto Combi, & La Noù. M. DC. LXXII.* | *Con licentia de' Superiori, e Priuilegio.*

2<sup>o</sup>:  $\pm^4$  A-Z<sup>6</sup> 2A-2Z<sup>6</sup> 3A-3M<sup>6</sup> a<sup>4</sup>; 356ℓ.; [8], 1-696, [8] p., large engraved folding frontispiece of the museum interior, 128 woodcuts in the text. Title in red and black. PAGE SIZE: 326 x 220 mm.

CONTENTS: [2 pgs], Title page, verso blank.; [2 pgs], "Serenissima | Altezza."; [2 pgs], "Ferrante Imperato | A' Lettori."—dated 1599.; [2 pgs], "Los Stampatore | A' Lettori"—signed Andrea Pisani & Battista Nani, 21 July 1670.; [Frontispiece].; 1-696, Text.; [7 pgs], "Indice | Dell' Istoria Natvrale | Di Ferrante | Imperato."; [1 pg], "Errata."

PLATES: The frontispiece showing the museum's interior, as the wording at the bottom center within a scroll

# IMPERATO

work, "Ritratto Del Museo Di | Ferrante Imperato."

VERY SCARCE. Edited and enlarged in the plant section by Giovanni Maria Ferro [??-??]. The text is in 28 books and covers the entire range of natural history and related technologies from geology (five books) through hydraulics, aerology, thermodynamics, metallurgy, zoology, and botany. The engraved frontispiece is a faithfully engraved reproduction of the original woodcut. The text woodcuts are mainly half and full page size and depict minerals, precious stones, plants, sea creatures, reptiles, and insects.

REFERENCES: Accordi, B., "Ferrante Imperato (Napoli, 1550-1625) e il suo contributo alla storia della geologia," *Geologica Roma*, 20 (1980), 43-56, 6 figs. • BMC: 2, 902. • Cobres, *Deliciae Cobresianae*, 1782: 1, 165, no. 16. • Edwards, *Early History of Palaeontology*, 1976: p. ?? . • Hoover Collection: no. 440. • Hunt Botanical Catalog: no. 321. • LKG: III 35 & 36. • Neviani, A., "Ferrante Imperato, speziale e naturalista Napoletano, con documenti inediti," *Atti e Mem. Acc. Storia dell'Arte Sanitaria, Memorie*, Roma, Series 2, 2, 57-74, 124-145, 199-210 & 243-267. • NUC: 265, 205 [NI 0041486]. • Pritzel, *Thesaurus Literaturae Botanicae*, 1871-3: no. 4433. • Schröter's *Journal für die Liebhaber*: 2, 85. • Ward & Carozzi, *Geology Emerging*, 1984: no. 1172. • Wilson, *History of Mineral Collecting*, 1994: 19, 36-8 & 214.

**2385. Translation, Lipsiae issue, 1695:** [In black:] Ferrandi Imperati | Neapolitani | [in red:] Historiae | Naturalis | [in black:] | Libri XXIIIX. | Accesserunt nonnullae | Johannis Mariae Ferro | [in red:] Adnotationes | [in black:] Ad | Librum Vigessimum Octavum. | [in red:] Nunc primum ex Italica in lingvam con- | [in black:] versa Latinam. | Cum Indice Locupletissimo. | [rule] | Lipsiae, | [in red:] Sumptibus Philippi Gothofredi Saurmanni, | [in black:] Bibliopol. Bremensis. | [rule] | Anno M DC XCV.

8°: )o(4 A-Z4 2A-2Z4 3A-3Z4 4A-4Z4 5A-5Z4 6A-6O4; 480ℓ.; [8], [1]-928, [24] p., 136 woodcuts, of which 67 are full-page. Title in red and black. PAGE SIZE: 200 x 158 mm.

CONTENTS: [2 pgs], Title page, verso blank.; [1 pg], "Ferrandus Imperatus | Lectoribus."; [2 pg], "Typographus Italae | Editionis Lectoribus."; [3 pg], "Series Librorum | HuJus | Operis."; [1]-928, Text.; [23 pgs], "Index | Rerum Et Verborum."; [1 pg], Blank.

VERY SCARCE. Translation of *Historia Natvrale* (2nd ed., Venetia, 1672). This issue does not contain the double page plate of the museum interior. The text begins with Imperato's letter to the reader followed by the translator's preface and a table of contents. The text is presented, and an index concludes the work. It is identical, except for the title page to the Coloniae issue of the same year.

REFERENCES: NUC: [no copy listed]. • Pritzel, *Thesaurus Literaturae Botanicae*, 1871-3: no. 4433.

**2386. Translation, Coloniae issue, 1695:** [In black:] Ferrandi Imperati | Neapolitani | [in red:] Historiae | Naturalis | [in black:] | Libri XXIIIX. | Accesserunt nonnullae | Johannis Mariae Ferro | [in red:] Adnotationes | [in black:] Ad | Librum Vigessimum Octavum. | [in red:] Nunc primum ex Italica in lingvam con- | [in black:] versa Latinam. | Cum Indice Locupletissimo. | [rule] | Coloniae, | [in red:] Sumptibus Philippi Gothofredi Saurmanni, | [in black:] Bibliopol. Bremensis. | [rule] | Anno M DC XCV.

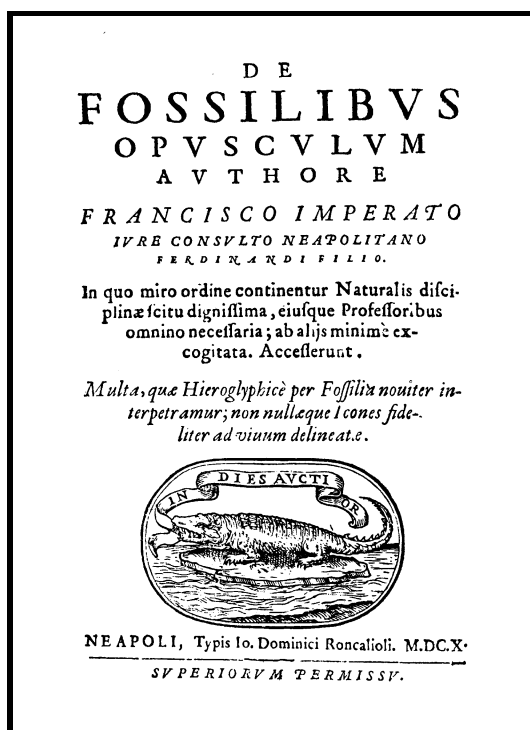
8°: )o(4 A-Z4 2A-2Z4 3A-3Z4 4A-4Z4 5A-5Z4 6A-6O4; 480ℓ.; [8], [1]-928, [24] p., 136 woodcuts, of which 67 are full-page. Title in red and black.

CONTENTS: [2 pgs], Title page, verso blank.; [1 pg], "Ferrandus Imperatus | Lectoribus."; [2 pg], "Typographus Italae | Editionis Lectoribus."; [3 pgs], "Series Librorum | HuJus | Operis."; [1]-928, Text.; [23 pgs], "Index | Rerum Et Verborum."; [1 pg], Blank.

VERY SCARCE. Translation of *Historia Natvrale* (2nd ed., Venetia, 1672). This issue does not contain the double page plate of the museum interior. The text begins with Imperato's letter to the reader followed by the translator's preface and a table of contents. The text is presented, and

an index concludes the work. It is identical, except for the title page to the Lipsiae issue of the same year.

REFERENCES: BMC: 2, 902. • LKG: III 35 & 36a. • NUC: 265, 205 [NI 0041487]. • Pritzel, *Thesaurus Literaturae Botanicae*, 1871-3: no. 4433.



DE FOSSILIBVS OPUSCULUM, 1610

**IMPERATO, Francisco.** *Italian lawyer.*

REFERENCES: Lambrecht & Quenstedt, *Catalogus*, 1938: 218.

**2387. — Latin, 1610.**

De | Fossilibvs | Opvscvlvm | Avthore | Francisco Imperato | Ivre Consvlto Neapolitano | Ferdinandi Filio. | In quo miro ordine continentur Naturalis disci- | plinae scitu dignissima, eiusque Professoribus | omnino necessaria; ab alijs minimè ex- | cogitata. Accesserunt. | Multa, quæ Hieroglyphicè per Fossilia nouiter in- | terpetramur; non nullæque Icones fide- | liter ad viuum delineatæ. | [ornament] | Neapoli, Typis Io. Dominici Roncalioli. M.DC.X. | [rule] | Svperiorvm Permissv.

4°: a4 A-M4 N6; 58ℓ.; [8], [1]-98, [10] p., title vignette, ornamental initials, one table, text illus.

RARE. The author was the son of FERRANTE IMPERATO.

REFERENCES: BMC: 6, 500. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 41. • Hoover Collection: no. 441. • LKG: III 38. • NUC: [no copy listed]. • Ward & Carozzi, *Geology Emerging*, 1984: no. 1173.

**2388. — Italian, 1628.**

Discorsi | Intorno | A Diverse | Cose Natvrali | Di | Francesco Imperato | V.I.D. Napolitano, | Opera Non Meno Cvriosa, | che vtile, e necessaria à Professori della | natural Filosofia. | [ornament] | In Napoli. | [rule] | Nella Stamperia di Egidio Lengo M.DC.XXVIII. | Con Licenza De' Sveriori.

4°: §<sup>4</sup> A-I<sup>4</sup> K<sup>7</sup>; 46ℓ.; [8], 1-83, [1] p., one folding table. Title page printer's device. Woodcut initials and tailpieces throughout. PAGE SIZE: 140 x 205 mm.

CONTENTS: [1 pg], Title page.; [1 pg], "Illustrissime, & Excellentissime Domine."—dated Febrary, 1628.; [2 pgs], Dedication to Frederico Cesi.; [3 pgs], "Al Lettore."; [1 pg], "Tavola | Degli Discorsi." (=table of contents).; 1-83, Text.; [1 pg], "Imprimatur: | Iacobus Terragnolus Vicarius | Generalis. | [...2 more lines...].

RARE. The work is a collection of 14 lectures on different topics in the study of fossils and mineralogy in Italian. At the end is a folding chart, in Latin, illustrating the author's classification method.

REFERENCES: BMC: 6, 500. • LKG: III 38a\*. • NUC: 265, 206 [NI 0041497].

**IMPERIAL INSTITUTE.**

Collection (Catalogue) of Irish Building Materials and Minerals, exhibited by the Department of Agriculture and Technical Instruction for Ireland. (London, 1903).

See: Ireland.—department Of Agriculture.

**IMRIE, Ninian.** *English geologist.*

REFERENCES: BBA: I 597, 94. • Livingstone, *Minerals of Scotland*, 2002: p. 22-3. • Watt, *Bibliotheca Britannica*, 1824. • WBI.

**2389. — English, 1798.**

A short mineralogical description of the mountain of Gibraltar, by N. Imrie. Edinburgh, 1798.

4°: 12 p. Originally published in the *Transactions of the Royal Society of Edinburgh*, 4 (1797), pt. 2, 191-202. RARE.

REFERENCES: LKG: XIV 827\*. • NUC: 265, 296.

**2390. — English, 1817.**

A Catalogue of Specimens, illustrative of the Geology of Greece, and part of Macedonia ... Presented ... to the Museum of the University of Edinburgh. [Edinburgh:] 1817.

4°: 15 p., 3 plates. RARE.

REFERENCES: BMC: 2, 902. • NUC: [no copy listed].

**INNSBRUCK, Austria.****2391. — German, 1839.**

Abriss der montanistischen Kenntnisse, mit einer Darstellung der benützungsfähigen Mineralprodukte Tirols und Vorarlbergs. Innsbruck, 1839.

8°: 95 p. RARE.

REFERENCES: BMC: 2, 906.

**IOVANOVITCH, Douchan.****2392. — French, 1907.**

Servie Orientale or et Cuivre, Historique – Géologie – Minéralogie – Exploitation ... Paris, H. Dunod & E. Pinat, 1907.

8°: viii, 219 p., illus., map. "Index bibliographique," p. iii.

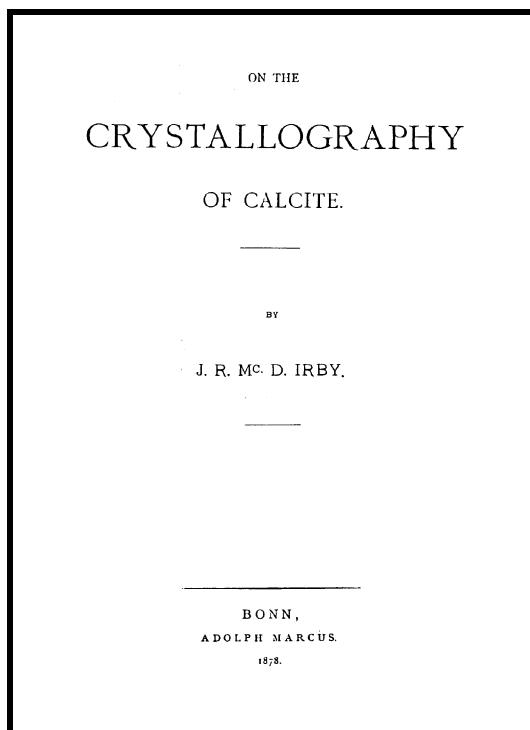
VERY SCARCE. A description of the gold mines and other mineral resources of Serbia and Montengro.

REFERENCES: NUC. • *USGS Library Catalog*.

**IRBY, John Robin MacDaniel.** (BORN: Lynchbury, Virginia, U.S.A., 1854?; DIED: 25 March 1880) *American mineralogist.*

Irby studied mineralogy at the University of Virginia from 1873 to 1875. For post graduate work, he studied at the University of Göttingen, from which he received his Ph.D. in mineralogy in 1878.

REFERENCES: Poggendorff: 3, 677.



ON THE CRYSTALLOGRAPHY OF CALCITE, 1878

**2393. — English, 1878.**

On The | Crystallography | Of Calcite. | [short rule] | Inaugural-Dissertation | On Attaining The Degree Of Doctor Of Philosophy | From The | Georgia-Augusta-University | At Goettingen | By | J.R.McD. Irby, B.Sc. | Of Lynchburg, Va. U.S. | [short rule] | [tapered rule] | Bonn, | Printed By Charles Georgi. | 1878.

8°: [i]-viii, [1]-72 p., one plate ("Calcite from Agaëte and Lake Superior"). PAGE SIZE: 218 x 135 mm.

## ISIDORUS HISPALENSIS

CONTENTS: [i-ii], Title page, verso blank.; [iii], Dedication to the author's father and Gustav von Rath.; [iv], Blank.; [v]-viii, "Preface."; [1]-72, Text.; [At end], Plate.

RARE. This work first appeared as a prize winning dissertation at the University of Göttingen under the title, *Kritische Untersuchungen über der Kalkspath-Skalenoeder* (Bonn, 1877). It describes some of the diverse crystallography of the mineral species calcite.

REFERENCES: BMC: 2, 909. • NUC: 271, 439.

### IRELAND.—Department of Agriculture.

#### 2394. — English, 1902 [Collection catalog].

Irish Mineral Exhibit. Cork International Exhibition, 1902. Catalogue. Cork: [1902].

8°: 15 p. RARE.

REFERENCES: BMC: 6, 508.

#### 2395. — English, 1903 [Collection catalog].

Collection (Catalogue) of Irish Building Materials and Minerals, exhibited by the Department of Agriculture and Technical Instruction for Ireland. [London, 1903].

8°: 16 p. RARE.

REFERENCES: BMC: 6, 508.

### IRIARTE Y SHAKERY, Ciriaco de.

#### 2396. — Spanish, 1900.

Clasificación Mineralógica de las Tierras empleando del método de aná; Osos de Schloesing. Madrid, 1900.

8°: 7 p. VERY RARE.

REFERENCES: BMC: 2, 909. • NUC: [no copy listed].

### ISAAC, Johannes.

See: **Hollandus, Johan Isaäc.**

**ISIDORUS HISPALENSIS.** (BORN: Cartagena or Seville, Spain, c570; DIED: Seville, Spain, 636) *Spanish encyclopaedist.*

Isidore, Bishop of Seville, became, thanks to his remarkable *Etymologies, or the Origins of Words*, the chief authority of the Middle Ages, and the presence of his encyclopedia in every monastic, cathedral and college library was a main factor in perpetuating the state of knowledge and the modes of thought of the late Roman world. He was Bishop of Seville from around 600 until his death.

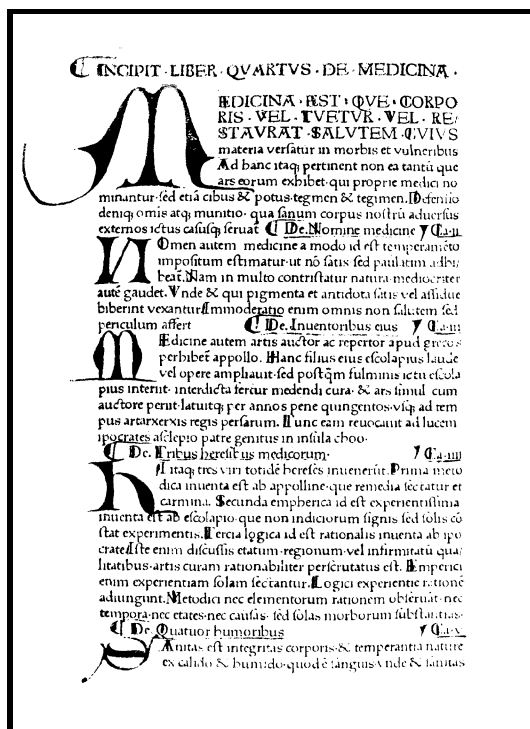
REFERENCES: *Encyclopaedia Britannica*, 11th edition. • *Jewish Biographical Archive*: S56, 196. • *Nouvelle Biographie Générale* (Hofer). • Sarton, *Introduction*, 1928-52: 1, 471-2. • WBI.

#### 2397. — Latin, 1472 [First edition].

*Etymologiæ Libri XX.* [Augsburg:] Günther Zainer, 19 November 1472.

2°: 264ℓ., 3 full-page woodcut diagrams and a woodcut map of the world. Roman type, 38 lines. PAGE SIZE: 300 x 210 mm.

EDITIO PRINCEPS. Very rare. Isidore's book is a famous encyclopedia of medieval knowledge, and in its early editions is the first book to be printed in Roman types in Germany. Just as importantly, it also contains



ETYMOLOGIÆ, 1472

the earliest printed map of the world, a schematic 'T-map' with areas marked as Asia, Europe, and Africa, the whole surrounded by a circle of water, with inland waterways between the continents – that between Europe and Africa being marked as the Mediterranean. There is also an illustration of the earliest printed tree of consanguinity.

This work, the most notable of Isidore, is the standard authority upon the state of learning at the end of the 6th and beginning of the 7th century. Divided into twenty books, it "defines or discusses terms drawn from all aspects of human knowledge and is based ultimately on late Latin compendia and gloss collections. The books of greatest scientific interest deal with mathematics, astronomy, medicine, human anatomy, zoology, geography, meteorology, geology, mineralogy, botany, and agriculture...His influence in the Middle Ages and Renaissance was great, and he remains an interesting and often authoritative source for Latin lexicography, particularly in technical, scientific, and nonliterary fields." —DSB.

In terms of mineralogy, Book XVI, "De lapidibus et metallis," describes stones, minerals, and metals. This was one of the principal sources available in the Middle Ages for ideas about minerals and stones, and was compiled by Isidore from ancient sources, the most important being Pliny.

REFERENCES: BMC XV: 2, 317. • BMC XV: II 317 [IB 5438]. • DSB. • Goff: I-181. • Goff: I-181. • Hain, *Repertorium Bibliographicum*, 1826-38: 9273\*. • IGI: no. 5404. • Klebs, *Incunabula Scientifica*, 1938: no. 536.2. •

Osler, *Incunabula Medica*, 1923: no. 13. • PPM: *Printing and the Mind of Man*: 9. • Polain, *Catalogue*, 1932: no. 2135. • Proctor, *Index*, 1898-1906: no. 1532. • Schramm, *Bilderschmuck der Frühdrucke*, 1922-36: 2, p. 10 & 24. • Schreiber, *Manuel de la Gravure*, 1893-1911: no. 4266. • Smith, *Rara Arithmetica*, 1908: p. 8. • Stillwell, *Awakening Interest in Science*, 1970: no. 665. • Wellcome Catalog (Books): 1, no. 3433.

**2398. 1473:** Etymologiae ... [Strassburg, Johann Mentelin, about 1473].

2°: RARE.

REFERENCES: BMC XV: 1, 57 [IC 586]. • Goff: I-182. • Hain, *Repertorium Bibliographicum*, 1826-38: HC 9270\*. • Klebs, *Incunabula Scientifica*, 1938: no. 536.1 [1472]. • Oates, *Cambridge 15th Century Books*, 1954: no. 89. • Osler, *Incunabula Medica*, 1923: no. 27. • Polain, *Catalogue*, 1932: no. 2133. • Proctor, *Index*, 1898-1906: no. 227. • Schramm, *Bilderschmuck der Frühdrucke*, 1922-36: 19, p. 13. • Schreiber, *Manuel de la Gravure*, 1893-1911: no. 4267.

**2399. 1478:** Etymologi ... [Cologne, Conrad Winters, de Homborch, about 1478].

2°: RARE.

REFERENCES: Goff: I-183. • Hain, *Repertorium Bibliographicum*, 1826-38: HC 9271\*. • Klebs, *Incunabula Scientifica*, 1938: no. 536.3. • Madan, *Oxford Books*, 1895-1931: no. 2116. • Osler, *Incunabula Medica*, 1923: no. 139. • Polain, *Catalogue*, 1932: no. 2134. • Voulliéme (Köln): no. 706.

**2400. 1483:** Etymologiae. De summo bono. Venice, Peter Löslein, 1483.

2°:  $\pi^4$   $2\pi^1$  a-h10 i12 k10  $\chi^2$  A-B10 C8; 135ℓ.; [5], 101, [2], 28 leaves, woodcuts, diagrams, general table, map. RARE.

REFERENCES: BMC XV: 5, 379-80 [IB 22456]. • Essling, *Livres à Figures Vénitiens*, 1907-14: no. 303. • Hain, *Repertorium Bibliographicum*, 1826-38: HC 9279\* [includes H 9272\*]. • Hoover Collection: no. 444. • IGI: no. 5406. • Klebs, *Incunabula Scientifica*, 1938: no. 536.4. • Polain, *Catalogue*, 1932: no. 2136. • Proctor, *Index*, 1898-1906: no. 4904. • Sander, *Livre à Figures Italien*, 1941: no. 3526. • Wellcome Catalog (Books): 1, no. 3434.

**2401. 8 August, 1489:** Etymologiae ... Basel, [Michael Furter?], 8 August 1489.

2°: RARE.

REFERENCES: BMC XV: 3, 787 [IB 37841]. • Goff: I-185. • Hain, *Repertorium Bibliographicum*, 1826-38: HC 9274\*. • Klebs, *Incunabula Scientifica*, 1938: no. 536.5. • Polain, *Catalogue*, 1932: no. 2137. • Proctor, *Index*, 1898-1906: no. 7480.

**2402. 11 December, 1493:** Etymologiae ... Venice, Bonetus Locatellus, for Octavianus Scotus, 11 December 1493.

2°: RARE.

REFERENCES: BMC XV: 5, 442 [IB 22898]. • Goff: I-186. • Hain, *Repertorium Bibliographicum*, 1826-38: H 9280\*. • IGI: no. 5407. • Klebs, *Incunabula Scientifica*, 1938: no. 536.6. • Polain, *Catalogue*, 1932: no. 2138. • Proctor, *Index*, 1898-1906: no. 5049. • Sander, *Livre à Figures Italien*, 1941: no. 3527.

**2403. 25 May, 1499:** Etymologiae ... Paris, Georg Wolf and Thielman Kerver, for Jean Petit, 25 May 1499.

2°: RARE.

REFERENCES: BMC XV: 8, 216 [IB 40961; variant edition]. • Goff: I-187. • Hain, *Repertorium Bibliographicum*, 1826-38: HC 9275\*. • IGI: no. 5408. • Klebs, *Incunabula Scientifica*, 1938: no. 536.7. • Oates, *Cambridge 15th Century Books*, 1954: no. 3153. • Polain, *Catalogue*, 1932: no. 2139. • Proctor, *Index*, 1898-1906: no. 8383.

**2404. 1500:** Etymologiae ... [Venice, Bonetus Locatellus, for Octavianus Scotus, after 1500].

2°: RARE.

REFERENCES: Goff: I-188. • Hain, *Repertorium Bibliographicum*, 1826-38: HC 9277\* [1485]. • IGI: 3, p. 184

[16th c.]. • Klebs, *Incunabula Scientifica*, 1938: no. 536.8 [after 1500]. • Proctor, *Index*, 1898-1906: p. 815 [16th c.].

**ISLE, Jean-Baptiste Louis Romé L'.**

See: Romé De L'isle, Jean-baptiste Louis.

**ISSEL, Arturo.** (BORN: 1842; DIED: 1922) *Italian geologist.*

REFERENCES: ABI: I 539, 403-404; II 312, 102. • Cleavelly, *World Palaeontological Collections*, 1983: 161. • DSB: 7, 30-1. • Lambrecht & Quenstedt, *Catalogus*, 1938: 219. • Poggendorff: 3, 678-9 & 4, 684-5. • Sarjeant, *Geologists*, 1980: 2, 1372-3. • WBI.

**2405. — Italian, 1887** [Bibliography].

Bibliografia Scientifica della Liguria. I. Geologia, Paleontologia, Mineralogia, ... Genova, 1887.

8°: 113 p. VERY SCARCE.

REFERENCES: BMC: 2, 911. • NUC: [no copy listed].

**ITTIG, Thomas.** (BORN: Liepzig, Germany, 1643; DIED: 1710) *German theologian.*

Ittig was professor of divinity at the University of Leipzig. He authored numerous works on theology.

REFERENCES: ADB. • DBA: I 591, 232-289. • Hirsching, *Historisch-literarisches Handbuch*, 1794-1815. • Jöcher, *Gelehrten-Lexikon*, 1750-51. • Kern, F., *De Vita et Scriptis T. Ittig*. 1710. • Poggendorff: 1, col. 1172. • Thomas, *Dictionary of Biography*, 1884: 1357. • WBI.

**2406. — Latin, 1663.**

Disput. III. De Montium Incendiis. Leipzig, 1663.

4°: A study of volcanoes. RARE.

REFERENCES: LKG: XIII 261.

**2407. — Latin, 1671** [First edition].

Q.B.V.M. Thomæ Ittigii ... Lucubrationes academicae de Mintium incendiis, in quibus post ardentium toto passim orbe montium catalogum & historiam, ac variarum opinionum examen, non modò totus naturæ cùm in efficiendis tùm in conservandis illis ignibus processus exponitur, sed mirabilium etiam, quæ vehementioribus paroxysmis accidunt, symptomatum ratio redditur, aliaque materiam hanc attinentia curiosis exhibentur antehac ad disputandum diversis vicibus propositæ nunc ab autore recognitæ, magnam partem, auctæ & conjunctim editæ cum indice sectionum & capitum. Lipsiæ, Typis & impensis J. Wittigau, 1671.

8°: [2], [12], [2], 341, [11] p.

RARE. On the internal structure of the earth and the make up of volcanoes. Ittig gives recounts the opinions of earlier authors and compares and contrasts them.

REFERENCES: LKG: XIII 262a. • NUC: 274, 137.

**2408. Another edition, 1679:** Lucubrationes academicae de Mintium incendiis, in quibus post ardentium toto passim orbe montium catalogum et historiam ac variarum opinionum examen, non modo totæ naturæ in illis ignibus processus exponitur, antea ad disputandum propositæ, nunc auctæ et conjunctim editæ. Leipzig, 1679.

8°: [2], [12], [2], 341, [11] p. RARE.

REFERENCES: LKG: XIII 262a.



JABIR IBN HAYYAN

IWANICKI, Józef. *Polish naturalist.*

**2409. — Polish, 1777.**

Krótkie zebranie zarzutów ciekawych o rzeczach tego świata pod zmysły nam podpadających i ie zadziwiających pożytkowi młodzi. Berdyczów, 1777.

16°: 10, 152, 20 p.

VERY RARE. Discussion of various natural objects including soil, stones, and metals.

REFERENCES: Fleszarowa, *Bibliografia Geologiczna Polski*, 1966: no. 1183. • NUC: [no copy listed].

**IZARN, Joseph.** (BORN: Cahors, Lot Dép., France, 10 January 1766; DIED: 1835?) *French physician.*

Izarn was a doctor in the French army; professor of physick, then General-inspector of the universities of France until 1815.

REFERENCES: Poggendorff: 1, col. 1174.

**2410. — French, 1803.**

Des Pierres | Tombées du Ciel, | ou | Lithologie | Atmospherique, | Présentant | La Marche et l'Etat actuel de la Science, sur le | Phénomène des Pierres de foudre, Pluies de | pierres, Pierres tombées du ciel, etc.; plusieurs | Observations inédites, communiquées par MM. | Pictet, Sage, Darcet et Vauquelin; avec un | Essai de Théorie sur la formation de ces Pierres. | Par Joseph Izarn, Médecin; Professeur de Physique; de | la Société des Sciences, Belles-Lettres et Arts de Paris; Secrétaire | de la Commission d'Expériences de la Société Galvanique, et | Correspondant de plusieurs Sociétés savantes. | [rule] | De hoc mult multa, omnes aliquid, Nemo Satis. | (Inscript. de la Pierre d'Ensisheim.) | [rule] | A Paris, | Chez Delalain Fils, Libraire, quai des Augustins, | n°. 38, au coin de la rue Pavée. | [rule] | Floréal an XI (1803.)

8°:  $\pi^4$  1-26<sup>8</sup> 273; 215 $\ell$ .; [i]-viii, [1]-421, [1] p., one folding table ("Observations Anciennes et Modernes"). PAGE SIZE: 198 x 118 mm.

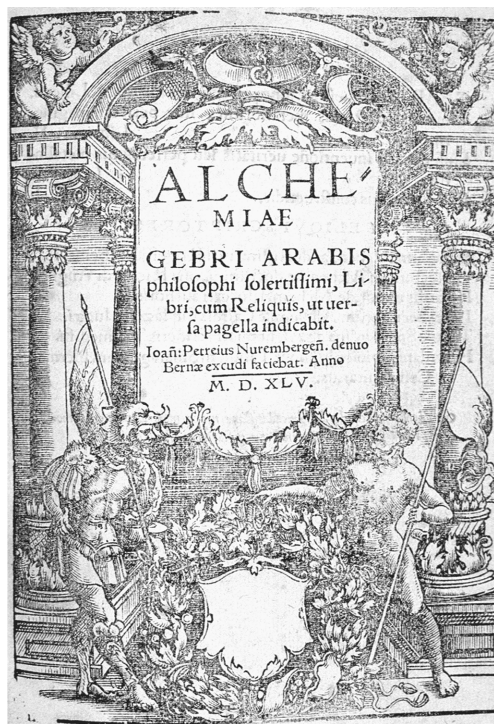
CONTENTS: [i-ii], "Lithologie | Atmosphérique," verso blank.; [iii-iv], Title page, verso blank.; [v]-vii, Dedication.; [1]-421, Text.; [1 pg], "Errata."

VERY SCARCE. An early work on meteorites, and one which theorized they were formed in the upper atmosphere of the earth. The first section recounts the various opinions on the nature of meteorites prior to 1700. Then are provided descriptions of numerous eyewitness accounts of meteorite falls.

REFERENCES: *Annalen der Physik*: 15 (1803), 437-62. • BL: [953.g.10.]. • BMC: 2, p. 914. • Burke, *Cosmic Debris*, 1986: p. 59. • *Journal de Physique*: 56 (1803), 441-58. • LKG: XVI 346. • NUC: 274, 369.

**JABIR IBN HAYYAN (Geber).**

Latinized to Geber, works attributed to this ancient alchemist became important sources of information.



ALCHEMIAE, 1545

**2411. — Latin, 1545.**

[Contained within an elaborate woodcut frame:] Alche= | miae | Gebri Arabis | philosophi solertissimi, Li- | bri, cum Reliquis, ut uer- | sa pagella indicabit. | Ioan: Petreius Nurembergen. denuo | Bernæ excudi faciebat. Anno | [rule] | M. D. XLV.

8°: 2a-2b<sup>4</sup> a-z<sup>4</sup> A-P<sup>4</sup>; 160 $\ell$ .; [16], 302, [2] p., illus. COLOPHON: Excusum per Mathiam Apiarium, expensis Joanni Petrei Norinbergensis, M.D.XLV. [1545].

RARE. Edited by Chrysogonus Polydorus. This is a collection of tracts on alchemy attributed to such authors as Geber, Roger Bacon, and Richard Anglici, and representing "the amount of Arabic chemical knowledge made available to Latin reading people toward the end of the 13th century .. the best Latin knowledge of chemistry in that period. We find in them [Geber's writings] remarkably sound views on methods of chemical research; a theory of metals (the six metals differ essentially because of different proportions of sulfur and mercury in them); preparation of various substances (e.g., basic lead carbonate; arsenic and antimony from their sulfides). Geber deals also with various applications, e.g., refinement of metals, preparation of steel, dyeing of cloth and leather, varnishes to water-proof cloth and to protect iron, use of manganese dioxide in glass-making, use of iron pyrites for writing in gold, distillation of vinegar to concentrate acetic acid. He observed the imponderability of

magnetic force." The study of the manuscripts and printed texts of Geber suggests that the corpus of the writings attributed to Geber is not the work of a single man but, rather, that of a school. In addition to the Latin alchemical writings, which appeared in the thirteenth and fourteenth centuries, there are older works from the tenth century written in Arabic under the name of Geber. The author of these Arabic writings, however, was not the same as the author of the Latin.

**Contents:** Speculum alchemiae Rogerii Bachonis.—Correctorium alchemiae ... Richardi Anglici.—Rosarius minor, de alchemia, incerti authoris.—Liber secretorum alchemiae Calidis filii Jazichi Judaei.—Tabula smaragdina de alchemia, Hermetis Trismegisti.—Hortulani ... super Tabulam Smaragdinam Hermentis, commentarius.

REFERENCES: DSB. • Ferguson, *Bibliotheca Chemica*, 1906: 1,. • Hoover Collection: no. 445. • Sarton, *Introduction*, 1928-52: ??, ??.

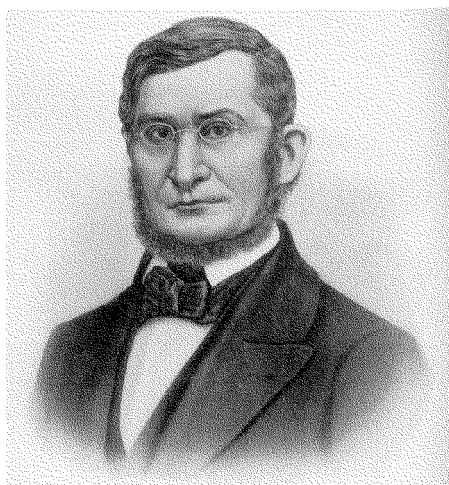
**JACHMANN, John Benjamin.**

**2412. — Latin, 1789** [Dissertation].

Tentamen chemicum inaugurale, de natura crystallisationis. Quod ... ex auctoritate ... D. Gulielmi Robertson ... Academiae Edinburghae praefecti ... pro gradu doctoris ... eruditorum examini subjicit Joannes Benjamin Jachmann, Regiomonto-Borussus ... Ad diem 12. Septembris [1789]. Edinburgi, Apud Balfour et Smellie, academiae typographos, 1789.

8°: 33 p. RARE.

REFERENCES: Ward & Carozzi, *Geology Emerging*, 1984: no. 1180.



JACKSON

**JACKSON, Charles Thomas.** (BORN: Plymouth, Massachusetts, U.S.A., 21 June 1805; DIED: Somerville, Massachusetts, U.S.A., 28 August 1880) *American physician & chemist.*

Jackson obtained his medical degree from Harvard in 1829. He was interested in geology as well as medicine and chemistry and he made several geological surveys of various parts of New England between 1837 and 1844. Always a

quarrelsome type with a touch of madness underneath the surface, he went mad in 1873 and never recovered.

REFERENCES: ABA: I 830, 362-386. • Adams, *Dictionary of American Authors*, 1904. • *American Chemists & Chemical Engineers*: 1, 245-6 [by B.E. Schaar]. • *Appleton Cyclopedia of American Biography*. • Drake, *Dictionary of American Biography*, 1872. • *Herringshaw's National Library of American Biography*. • *National Cyclopedia of American Biography*. • Poggendorff: 1, cols. 1176 & 1575-6. • WBI.

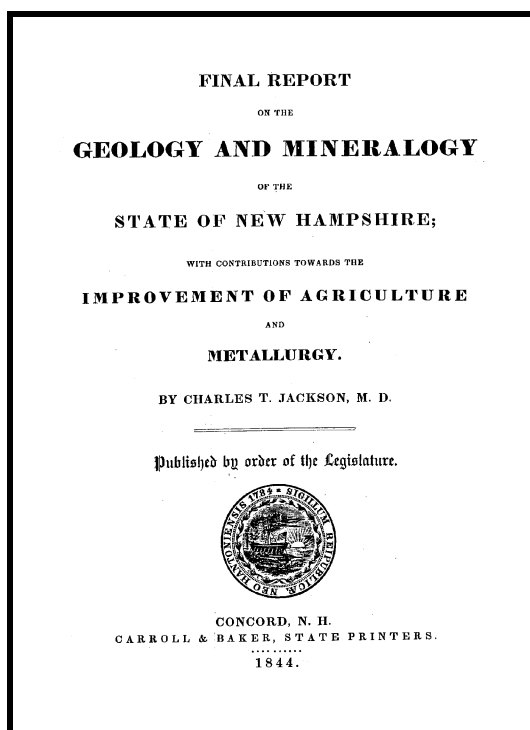
**2413. — English, 1832.**

Remarks on the mineralogy and geology of the peninsula of Nova Scotia accompanied by a colored map, illustrative of the structure of the country, and by several views of its scenery by Charles T. Jackson and Francis Alger [from the Memoirs of the American Academy.] Cambridge, E.W. Metcalf, 1832.

8°: [4], 116 p., [4] leaves of plates (some folded), illus., colored map. PAGE SIZE: 220 x 270 mm.

VERY SCARCE. Co-authored with Francis Alger.

REFERENCES: NUC. • *USGS Library Catalog*.



FINAL REPORT, 1844

**2414. — English, 1844.**

Final Report | On The | Geology And Mineralogy | Of The | State Of New Hampshire; With Contributions Towards The | Improvement Of Agriculture | And | Metallurgy. | By Charles T. Jackson, M.D. | [double rule] | Published by order of the Legislature. | [ornament] | Concord, N.H. |

## JACOB

Carroll & Baker, State Printers. | . . . . . |  
1844.

4°: [i]-viii, [1]-376 p., errata, 2 color folding charts,  
1 folding map, 7 plates, many intertextual plates.

CONTENTS: [i-ii], Title page, verso blank.; [iii]-v,  
“Laws Of The Legislature Of New Hampshire...”; vi-viii,  
“Introductory Letter To The Governor.”—signed Charles  
T. Jackson, June 1844.; [1]-370, Text.; [371]-375, “Index.”;  
376, “Errata.”

VERY SCARCE. A large compilation of mostly  
northern New Hampshire geology and mineralogy  
together with lore that includes cheese and corn  
production on Cow Island and a letter about the  
Canterbury Shakers. The frontispiece is a grand view of  
the itinerant preacher in Jaffrey with Mt. Monadnock  
in the background. Also bound in at back are two large  
folded colored drawings of geological sections of New  
Hampshire landscape.

REFERENCES: NUC. • *USGS Library Catalog*.

## JACKSON, James.

### 2415. — English, 1847.

List of Minerals, in the Cabinet of the University  
of Georgia, 1847. Arranged in Accordance with  
Alger’s Philips’ Manual, by Prof. James Jackson.  
Athens [Ga.], Published by Order of the Board of  
Trustees [Southern Banner Print], 1847.

16°: [1]-70 p. Printed wraps.

RARE. The text lists hundreds of minerals by  
class according to the classification described in Francis  
Alger’s [1807-1863] edition of WILLIAM PHILLIPS’ *An  
Elementary Treatise on Mineralogy* (Boston, 1844),  
with the locality of each specimen noted. Also included  
is a list of fossils. Presumably, this collection was lost in  
1864, when during the Civil War, Georgia were pillaged.

REFERENCES: NUC.

**JACKSON, Julian R.** (BORN: c1790; DIED: London,  
England, 16 March 1853) *Military officer*.

Jackson was attached to the British army, and  
traveled in 1814 to Russia. Later he was involved in the  
manufacturing of military equipment in London. For a long  
time, he was the secretary of the Geographical Society of  
London.

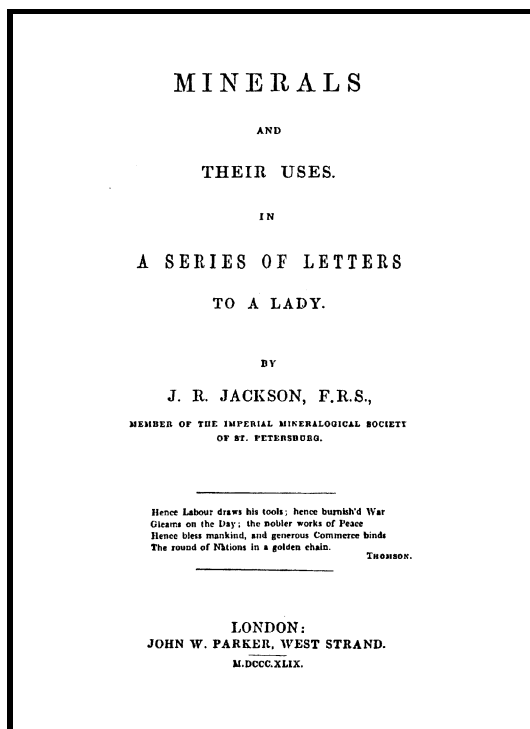
REFERENCES: Poggendorff: 1, col. 1175.

### 2416. — English, 1849.

Minerals | And | Their Uses. | In | A Series  
Of Letters | To A Lady. | By | J.R. Jackson,  
F.R.S., | Member Of The Imperial Mineralogical  
Society | Of St. Petersburg. | [rule] | [...4 lines of  
quotation, signed Thomson...] | [rule] | London: | John  
W. Parker, West Strand. | [rule] | M.DCCC.LXIX.

8°: xvi, 464, [8] adverts. p., frontispiece (hand-  
colored, showing gemstones).

SCARCE. A carefully written work, providing a  
wide range of interesting mineralogical information.  
Written as a series of letters to a lady, topics include  
mineral compounds, forms of crystals, salts, calcium  
and its minerals, particularly the carbonates (including  
caves), quartz and its semi-precious varieties, diamond



MINERALS AND THEIR USES, 1849

and other gemstones, metals and ores, coral, pearl,  
amber, etc. Included are a series of tables used for  
mineral identification. The color plate shows various  
gemstones, including a full-size depiction of the Regent  
diamond.

REFERENCES: NUC. • *USGS Library Catalog*.

**JACOB, William.** (BORN: 1762?; DIED: 1851) *English  
statistician*.

REFERENCES: Allibone, *Dictionary of English Literature*,  
1859-71. • BBA: I 604, 175-181. • Boase, *Modern English  
Biography*, 1892-1921. • Watt, *Bibliotheca Britannica*, 1824.  
• WBI.

### 2417. — English, 1831.

An | Historical Inquiry | Into The | Production  
And Consumption | Of The | Precious Metals. |  
By William Jacob, Esq., F.R.S. | In Two Volumes.  
| Vol. I. [-II.] | London: | John Murray, Albemarle  
Street. | [rule] | 1831.

2 vols. [VOL 1] 8°: [i]-xvi, [1]-380 p. [VOL 2] 8°:  
[i]-xi, [1], 415, [1] p.

CONTENTS: [Vol 1] [i-ii], Half title page, “An |  
Historical Inquiry | Into The | Precious Metals,” verso  
blank.; [iii-iv], Title page, verso blank.; [v]-ix, “Preface.”—  
dated 16 July 1831.; [x], “Errata.”; [xi]-xvi, “Contents.”;  
[1]-380, Text.

[Vol 2] [i-ii], Half title page, “An | Historical Inquiry  
| Into The | Precious Metals,” verso blank.; [iii-iv], Title  
page, verso blank.; [v]-xi, “Contents.”; [1 pg], “Erratum.”;  
[1]-415, Text.; [1 pg], “By the same Author, | ...”

VERY SCARCE. Jacob was a London merchant and  
a Members of Parliament from 1808-12. He traveled

widely in Europe and was thoroughly knowledgeable on the subject of the statistics of the precious metals. He was appointed to the comptrollership of corn returns in 1822. "On the suggestion of Huskisson, [Jacob] undertook an inquiry into the production and consumption of the precious metals. This work shows great research, but is defective, which may be attributed partly, for the more recent periods, to the insufficient historical information available then" (Palgrave II, 471). "Mr. Jacob has recently published An Historical Inquiry ... in which he takes up the subject at the earliest period, and continues to the present day. This work ... contains a good deal of valuable information, and deserves the attention of all who take an interest in such inquiries." (J.R. MacCulloch, *A Dictionary of Commerce*).

**Facsimile reprint, 1968:** *An Historical Inquiry into the Production and Consumption of the Precious Metals*. New York, Augustus Kelly, 1968. 2 vols.

**REFERENCES:** *Freilich Sale Catalog*: no. 263. • *Goldsmith's Catalogue of Economic Literature*: no. 26788. • *Hoover Collection*: no. 447. • *Kress Catalogue*: no. 2842. • *Zeitlinger & Sotheran, Bibliotheca Chemica*, 1921-52: no. 9704.

#### JACOBÆUS, Haltorus (Halldór Jakobsson?).

##### 2418. — Danish, 1757.

Fuldstændige | Efterretninger | om | de udi Island | Ildsprudende | Bierge, | deres Beliggende, og de Wirk= | ninger, som ved Jord=Brandene | paa adskillige Tider ere | foraarsagede. | [ornament] | [double rule] | Kiøbenhavn, trykt hos L.H. Lillie boende i store | Fiolstræde, i den forgyldte Ore. 1757.

8°: [32], 88 p.

**VERY RARE.** An early description of the island of Iceland, including information on its geology, vulcanology, and maybe some mineralogy.

**REFERENCES:** BL. • Fiske: I, 277. • LKG: XIV 31. • NUC: [no copy listed].

#### JACOBÆUS, Oligero (i.e., Holger Jacobsen). (BORN: Aarhus, Denmark, 6 July 1650; DIED: Copenhagen, Denmark, 18 June 1701) *Danish chemist & physician*.

Jacobæus was a leading member of Thomas Bartholin's group of comparative anatomists and a favorite pupil of Steno. After graduating from the University of Copenhagen, he traveled extensively throughout Europe, enhancing his scientific abilities. Upon returning to Aarhus in 1679, he was appointed professor of philosophy and medicine at the University of Copenhagen. In 1699, Jacobæus was made a councilor of the Tribunal of Justice.

**REFERENCES:** *Dansk Biografisk Haandleksikon*: 2, 207. • *Dansk Biografisk Lexikon*. • Ferguson, *Bibliotheca Chemica*, 1906: 1, 431. • SBA: Scandinavian Biographical Archive: A-148, 69-80. • WBI. • Worm, *Forsøg til et Lexicon over Danske*, 1771-84.

##### 2419. — Latin, 1696 [First edition].

Museum Regium | seu | Catalogus | Rerum tam naturalium, quam | artificialium, | quae | in Basilica Bibliothecae | Augustissimi Daniae

Norvegiae; | Monarchae | Christiani | Qvinti | Hafniae asservantur, | Descriptus | ab | Oligero Jacobaes | Med. & Phil. Prof. Regio | cum Auctoris | cum Privilegio | Hafniae | Literis Reg. Cels. Typogr. Joachim Schmetgen | Anno M.D.C.XVCI.

2°: [18], 201, [5] p., frontispiece, 37 engraved plates (one double-page, 1 folding), title vignette, and engraved head- and tail-pieces.

**PLATES:** All the illustrations are engraved by J. Erichsonig after drawings executed by B. Grothschilling.

**SCARCE.** As the librarian of Copenhagen University, Jacobæus was also given the duty to arrange the Royal Collection of Curiosities, of which this is a printed description. It incorporates all the collections made by OLE WORM and Bernard Paludanus [??-?]. The text provides descriptions of the museum specimens, some of which are shown on the fine plates. The engraved frontispiece shows a portrait of Christian V, the royal coat-of-arms, and a view of the "Museum Regium." The plates show a curious mixture of man-made and natural objects, including an Eskimo costume, coins, medals, stuffed animals, birds, fish, shells, serpents, insects, as well as fossils and minerals. The depiction of items is even carried into the engraved head- and tail-pieces as well as the engraved initials, all of which show other collection specimens.

The Naturalia portion is divided into seven sections: (1) Man, including mummies and other animals and quadrupeds, (2) Birds, (3) Fish, (4) Shells, (5) Reptiles and Insects, (6) Plants, and (7) Metals, minerals, stones and earths. The Artificialia has five divisions corresponding to: (1) Artificial objects of metal, wood, bone, horn and amber, (2) Weapons, clothes, implements and utensils from India, Turkey, Greenland and elsewhere, (3) Antiquities, (4) Scientific and mechanical apparatus, and (5) Coins, medals, seals.

**Related work:** *Index alphabeticus describitionis [sic] Muséi Regii rariorum partis[que] primae (partis secundae) de rebus naturalibus, quae Hauniae asservantur, secundum editionem ultimam & auctiorem [of O. Jacobæus] "Muséum Regium, seu Catalogus rerum ... quae in basilica bibliothecae ... monarchae, Friderici Quarti, Havniae asservantur"* unâ cum quibusdam analectis uberioribus [sic]. [By Hans Gram.] Havniae, 1726. 2 parts, 2°. [BL Shelfmark: 435.h.21.(2.).]

**REFERENCES:** Balsiger, *Kunst und Wunderkammern*, 1970: 279-81. • BL: [560\*.f.7.]. • Eales: 855. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 282. • Murray, *Museums*, 1904. • Nissen (ZBI): no. 2081. • Ward & Carozzi, *Geology Emerging*, 1984: no. 1676. • Wilson, *History of Mineral Collecting*, 1994.

#### 2420. Supplement, 1699: Auctarium Rariorum, quae Museo Regio per Triennium Havniae Accesserunt, Uberioribus Illustrata Commentariis Praecipue Numismata et aliae Antiquitates Parti Secundae, aut insertae aut Inserendae. Anno MDCXCIX.

2°: [2], 97, [1] p., plates 38-41.

**RARE.** Supplemental volume with 4 additional plates.

**REFERENCES:** Balsiger, *Kunst und Wunderkammern*, 1970: 280. • BL: [38.f.2.].

#### 2421. 2nd edition, 1710: Museum regium, seu Catalogus rerum tam naturalium, quam artificialium, quae in basilica bibliothecae augustissimi Daniae Norvegiaeq; monarchae,

## JACQUIN

Friderici Qvarti, Havniae asservantur, gloriosis-simae memoriae rege, Christiano Qvinto, regnante, ab Oligero Jacobaeo ... Hauniae, ex reg. majest. & universit. typographeo, [1710].

2°: 260 leaves, portrait, 55 plates. Title vignette: head and tail pieces; initials.

VERY SCARCE. Edited by Johannes Laverentzen [??-??], this edition was prepared for Frederick IV.

**Reissue:** *Muséum Regium, seu Catalogus rerum tam naturalium, ... Cum indice alphabetico & analectis uberioribus.* Hauniae, [1726.] 2 parts, 2°. [BL Shelfmark: 560\*.f.8.].

REFERENCES: Balsiger, *Kunst und Wunderkammern*, 1970: 280. • BL: [459.c.6.]. • BMC: 2, 916. • Ferguson, *Bibliotheca Chemica*, 1906: 1, ?? • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 282.

**JACOBI, Georg Heinrich.** (BORN: 1845; DIED: ?) *German historian.*

### 2422. — German, 1889.

Der Mineralog Georgius Agricola und sein Verhältniss zur Wissenschaft seiner Zeit ... [Zwickau, 1889].

8°: 72 p. In this inaugural dissertation, Jacobi studies the importance of Agricola in the early study of mineralogy. VERY RARE.

REFERENCES: Hoover Collection: no. 449.

**JACOBS, Christian Wilhelm.** (BORN: 1763; DIED: 1815) *German writer.*

REFERENCES: DBA: I 595, 23-26. • Hamberger & Meusel, *Gelehrte Teutschland*, 1796-1834. • LKG: 292. • WBI.

### 2423. — German, 1807-12.

Der Thüringer Wald, besonders für Reisende geschildert. Gotha, 1807-12.

2 parts in 4 vols.

VERY SCARCE. Co-authored with. H.E.A. von Hoff. This is a travel description of Thuringen in Germany.

REFERENCES: LKG: XIV 243. • NUC: [no copy listed].

**JACOTOT, Pierre.** (BORN: Dijon, France, 1755; DIED: Dijon, France, 14 July 1821) *French scientist.*

Jacotot was a professor of physics, chemistry, mathematics and astronomy at the Central School, then at the Lyceum of Dijon.

REFERENCES: Poggendorff: 1, col. 1182.

### 2424. — French, 1804.

Elemens de Physique Experimentale, de Chimie et de Mineralogie, suivis d'un abrege d'Astronomie a l'usage des Lycees et Autres Etablissemens d'Industrie Public. Paris, 1804.

3 vols. and atlas. A description of public experiments performed in chemistry, mineralogy, and astronomy at the Lyceum of Industry in Paris. RARE.

REFERENCES: LKG: XII 221.

**JACQMIN, Jouaillier du Roi & de la Couronne.**

### 2425. — French, 1773 [Collection catalog].

Catalogue d'une ... collection de Coquilles, Madrépores, Minéraux, Agathes, Pierres précieuses, Bijoux Provenans de la succession de feu M. Jacqmin, Jouaillier du Roi & de la Couronne, &c. Paris, 1773.

8°: vi, 2, 106 p. Collection catalog of Jacqmin's natural history cabinet that included shells, minerals, agates, and precious stones. The author was a jeweler to the royal family of France. VERY RARE.

REFERENCES: BMC. • NUC: [no copy listed].



JACQUIN

**JACQUIN, Nikolaus Joseph Freiherr von.** (BORN: Leyden, The Netherlands, 16 February 1727; DIED: Vienna, Austria, 24 October 1817) *Austrian botanist & chemist.*

Already an established naturalist, Jacquin moved from his native land to Vienna in 1752. There he accepted an appointment by Francis I as the imperial botanist, and in this capacity he made from 1755 to 1759 an extended botanical expedition to America. Upon Jacquin's return he was appointed counselor for mines, and professor of chemistry, metallurgy, mining and metallurgy at Schemnitz, Hungary. In 1797, he became professor of chemistry and botany at the University of Vienna. For his service to the monarchy, he was made a Baron in 1806. In 1804, Jacquin was elected a member of the French Academy of Sciences. In addition, the plant genus "Jacquinea" was named in his honor by Linnaeus.

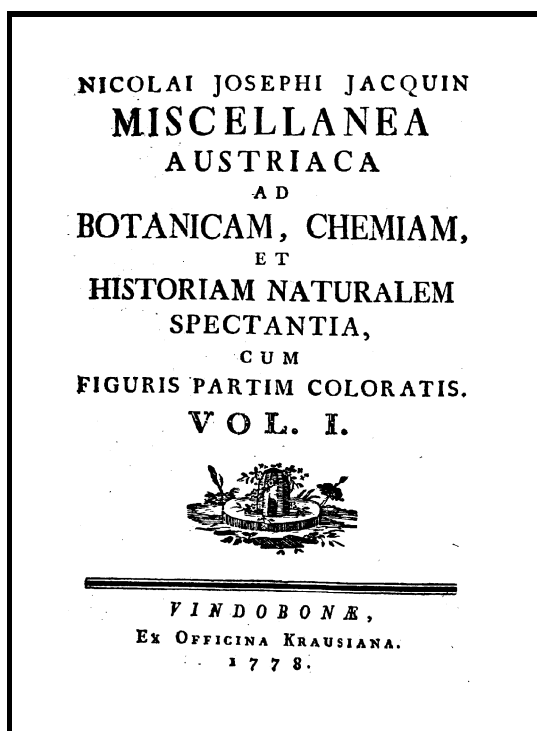
REFERENCES: ADB: 13, 631. • DBA: I 595, 339-367; II 643, 323-327. • Drugulin, *Sechstausend Portraits*, 1863: nos. 2737-43. • DSB: 7, 57-9. • Ferguson, *Bibliotheca Chemica*, 1906: 1, 431-2. • Hamberger & Meusel, *Gelehrte Teutschland*, 1796-1834. • Hirsch, *Biographisches Lexikon*, 1884-8. • NDB: 10, 257-9 [by H. Dolezal]. • Österreich Biographisches Lexikon. • Poggendorff: 1, col. 1185. • WBI. • Wilson, *History of Mineral Collecting*, 1994: 110 & 177. • World Who's Who in Science: 869. • Wurzbach, *Biographisches Lexikon Österreich*, 1856-91.

### 2426. — Latin, 1778-81.

Nicolai Josephi Jacquin | Miscellanea | Austriaca | Ad | Botanicam, Chemiam, | Et | Historiam Naturalem | Spectantia, | Cum | Figuris Partim Coloratis. | Vol. I. | [ornament] | [ornate rule] | Vindobonæ, | Ex Officina Krausiana. | 1778.

[TITLE OF VOLUME TWO READS:]

Nicolai Josephi Jacquin | Miscellanea | Austriaca | Ad | Botanicam, Chemiam, | Et | Historiam



MISCELLANEA AUSTRIACA, 1778

Naturalem | Spectantia, | Cum | Figuris | Vol. II. | [ornament] | [ornate rule] | Vindobonæ, | Ex Officina Krausiana. | 1781.

2 vols. [VOL 1: 1778] 4°: A-Dd<sup>4</sup>; 108ℓ.; [4], [1]-212 p., 21 hand-colored plates. COLOPHON (Dd4v): "Viennæ, | Typis Josephum Gerold, Aul. Imp. Typ. 1778." [VOL 2: 1781] 4°: A-Ggg<sup>4</sup>; 212ℓ.; [1]-423, [1] p., 23 hand-colored plates. COLOPHON (Ggg4v): "Typis Matthiæ Andreæ Schmidt, Universitatis Typographi." PAGE SIZE: 222 x 172 mm.

CONTENTS: [Vol 1] [2 pgs], Title page, verso blank.; [2 pgs], "Præfatio."—dated 1 November 1777.; [1]-210, Text.; [211], "Explicatio | Tabularum."; 212, "Contenta | In Hoc Volumine."

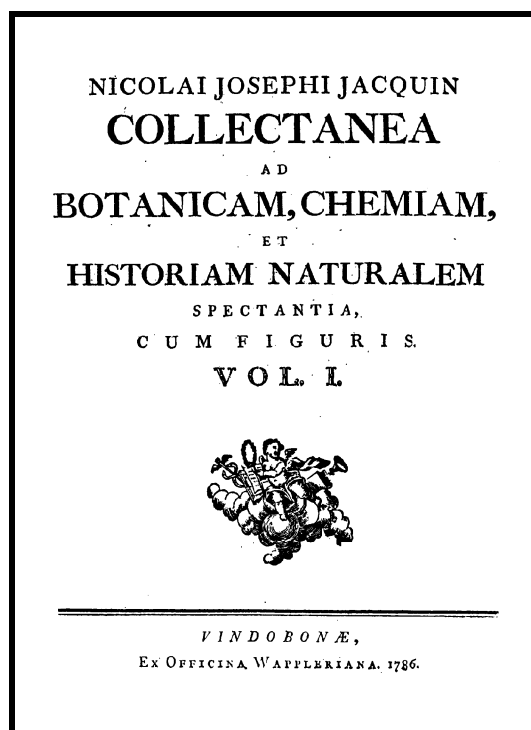
[Vol 2] [1-2], Title page, verso blank.; [3]-423, Text.; [1 pg], "Contenta | In Hoc | Volumine."

SCARCE. This collection contains articles on botany, chemistry, mineralogy, entomology, pharmacology, zoology, etc. Although volume one contains mostly botanical themes, the second volume includes illustrations of some other natural history subjects including Carinthia wulfenite. This is contained in Wulfen's articles, "Minera Plumbi Spatosa Carinthiaca" and "Exploratio Chemica Plumbi Spatosi flavi Carinthiaci" by F.X. Wulfen.

"This, like its continuation of larger format, the *Collectanea* [see next entry], was a device for publishing articles of Jacquin et amicorum ... Among the friends, Franz Xaver von Wulfen (1728-1805) is especially important for his 'Plantae rariores Carinthiacae.' ... Great Flower Books notes that the drawings for the plates

were by Jacquin and the engravings by Adam."—Hunt.

REFERENCES: BMC: 2, 918. • *Cleveland Herbal & Botanical Collections*, 1992: no. 535. • *Freilich Sale Catalog*: no. 265. • *Hunt Botanical Catalog*: no. 655. • LKG: VI 66. • Nissen (BBI): no. 975. • NUC: 275, 298. • Plesch, *Stiftung für Botanik Auction*, 1975-6: no. 389. • Pritzel, *Thesaurus Literaturæ Botanicae*, 1871-3: no. 4367. • Stafleu & Cowan, *Taxonomic Literature*, 1976-88: no. 571 (3248). • Stillwell, *Great Flower Books*, 1954: 104-5.



COLLECTANEA AUSTRIACA, 1786

#### 2427. — Latin, 1786-96.

Nicolai Josephi Jacquin | Collectanea | Ad | Botanicam, Chemiam, | Et | Historiam Naturalem | Spectantia, | Cum Figuris. | Vol. I. [-IV.] | [ornament] | [double rule] | Vindobonæ, | Ex Officina Wappleriana. 1786 [-1790].

[SUPPLEMENTAL VOLUME TITLE READS:]

Nicolai Josephi Jacquin | Collectaneorum | Supplementum. | Cum Figuris Coloratis. | [ornament] | [ornate rule] | Vindobonæ, | Ex Officina Wappleriana. 1796.

4 vols. and supplement. [VOL 1: 1786] 4°: A-Bbb<sup>4</sup> 3C<sup>2</sup>; 198ℓ.; 1-396 p., 22 hand-colored plates. [VOL 2: 1788] 4°: A-Aaa<sup>4</sup>; 187ℓ.; 1-374 p., 18 hand-colored plates (except pls. 2-6 which are plain). [VOL 3: 1789] 4°: A-Pp<sup>4</sup> Q<sup>1</sup>; 153ℓ.; 1-306 p., 23 hand-colored plates (except pls. 20-22 which are plain). [VOL 4: 1790] 4°: A-Yy<sup>4</sup>; 180ℓ.; 1-359, [1] p., 27 hand-colored plates. [Supplement: 1796] 4°: A-X<sup>4</sup> Y<sup>2</sup>; 136ℓ.; 1-171, [1] p., 16

## JÄGER

hand-colored plates. Between all the vols. there are 106 plates of which 98 are hand-colored. Many are probably engraved after original drawings by the authors of the various articles.

CONTENTS: [Vol 1] [1-2], Title page, verso prefatory note.; [3]-385, Text.; 386, Contents.

[Vol 2] [1-2], Title page, verso blank.; [3]-372, Text.; 373, Index.; 374, Contents.

[Vol 3] [1-2], Title page, verso blank.; [3]-305, Text.; 306, Contents.

[Vol 4] [1-2], Title page, verso blank.; [3]-358, Text.; 359, Contents.; [1 pg], Blank.

[Supplement] [1-2], Title page, verso blank.; [3]-171, Text.; [1 pg], Blank.

VERY SCARCE. Continuation to the editor's previous *Miscellanea Austriaca* (2 vols., Vindobonæ, 1778-81). Volume one contains "Minera Plumbi Spatosa Carinthiaca" by F.X. Wulfen.

REFERENCES: BMC: 2, 918. • Hunt Botanical Catalog: no. 681. • LKG: VI 67a. • Nissen (BBI): no. 970. • NUC: 275, 596-97. • Plesch, *Stiftung für Botanik Auction*, 1975-6: no. 392. • Stafleu & Cowan, *Taxonomic Literature*, 1976-88: no. 574. • Stillwell, *Great Flower Books*, 1954: 104-5.

### JACQUOT, André Eugène.

REFERENCES: Poggendorff: 1, col. 1186.

### 2428. — French, 1868.

Description Géologique et Minéralogique du Département de la Moselle ... Avec la Coopération de MM. O. Terquem et [A.] Barré. Paris, 1868.

8°: vii, 490 p., 4 plates (1 colored), one map, text illus. A topographical mineralogy that describes the region of Moselle in northeast France. RARE.

REFERENCES: BMC: 2, 919. • NUC: [no copy listed].

### JADIN, Fernand.

### 2429. — French, 1899 [First edition].

Précis d'Hydrologie et de Minéralogie. Lyon, 1899.

8°: iv, 492 p., 8 maps, text illus. VERY SCARCE.

REFERENCES: BMC: 2, 919. • NUC: [no copy listed].

2430. 2nd edition, 1920: ... Précis d'Hydrologie, de Géologie et de Minéralogie, par F. Jadin et A. Astruc ... 2. ed. rev. et augm. Paris, Maloine, 1920.

8°: vii, 555 p., illus., folding map, diagrams. VERY SCARCE.

REFERENCES: BMC: 2, 919. • NUC: 275, 624.

JAEGER, Franz Anton Donat. (BORN: 1765; DIED: 1835) *German priest & historian*.

REFERENCES: ADB. • DBA: I 596, 148-157. • Hamberger & Meusel, *Gelehrte Deutschland*, 1796-1834. • LKG: p. 292. • WBI.

### 2431. — German, 1803.

Briefe über die hohe Rhone Frankens, in geographisch-, topographisch-, physisch-, und historischer Hinsicht. Mit einer ganz speziellen Karte des Rhongebirges und einigen Prospekten von F.A.D. Jaeger. Arnstadt und Rudolstadt, 1803.

8°: These letters about Rhone Franken include descriptions of the geography, topography, and history. Minerals are probably touched upon in their contents. VERY SCARCE.

REFERENCES: LKG: XIV 119. • NUC: [no copy listed].

JÄGER, Johann Ludolph. (BORN: Magdeburg, Germany, 1728; DIED: Leipzig, Germany, 16 March 1787) *German physician*.

Jäger was educated at the University of Tübingen. He moved to Leipzig in 1747, followed by a move to Helmstädt in 1762, where he opened a medical practice. After retirement, he returned to Leipzig. He wrote under the pseudonym, Innocentius Liborius Ab Indagine.

REFERENCES: DBA: I 588, 392; 596, 317. • Ferguson, *Bibliotheca Chemica*, 1906: 1, 427-28. • Meusel, *Verstorbenen Deutschen Schriftsteller*, 1802-16. • Poggendorff: 1, col. 1186. • WBI.

### 2432. — German, 1782.

Memorabilia Bismuthi das ist chemisch- physikalische Abhandlung zu näherer Kenntniss des annoch ziemlich unbekannten Minerals welches Wissmuth und Magnesia wie auch Antimonium Foeminimum genennet wird deme ist noch beygefügt ein Commentarius über des Batsdorfs Filium Ariadnes. Nuremberg, 1782.

8°: 352 p.

RARE. Published under the pseudonym, Innocentius Liborius Ab Indagine, this is a lengthy commentary on the metals of bismuth and antimony, including much on their physical properties and natural ores.

REFERENCES: NUC: [no copy listed].

JAGNAUX, Raoul. (BORN: 1845; DIED: ?) *French chemist*.

### 2433. — French, 1885.

Traité | De | Minéralogie | Appliquée | Aux Arts, A L'Industrie, Au Commerce | Et A L'Agriculture | Contenant | Les Principes De Cette Sceince. La Description Des Minéraux, | Des Roches Utiles, | Et Celle Des Procédés Industriels Et Métallurgiques | Mixocels Ils Donnent Naissance | A L'Usage | Des Candolets A L Licence, Des Ingénieurs, Des Chimistes | Des Metallurgistes, Des Industriels, Etc., Etc. | Par | Raoul Jagnaux | [...2 lines of titles and memberships...] | Avec 468 figures dans le texte | Paris | Ocare Doin, Éditeur | 8, Place De L'Odéon, 8 | [short rule] | 1885 | Tous droits réservés.

8°: [4], [i]-iv, [2], [1]-883, [1] p., 468 text figures. PAGE SIZE: 238 x 146 mm.

CONTENTS: [2 pgs], Half title page, verso lists titles of author's other books.; [2 pgs], Title page, verso blank.; [i]-iv, "Preface."; [1 pg], Dedication to the author's mother.; [1 pg], Blank.; [1]-25, "Traité de Minéralogie. Considérations Générales sur la matière."; [26]-83, "Cristallographie."; [84]-106, "Caractères Physiques."; [107]-138, "Caractères Chimiques."; [139]-148, "Notions de Géologie."; [149]-862, "Description des Espèces."; [863]-865, "Bibliographie."; [866], Blank.; [867]-877, "Table des Matières."; [878], Blank.; [879]-883, "Table Alphabétique des espèces minerales Décrites dans cet ouvrage."; [1 pg], Blank.

VERY SCARCE. Actually a very thorough treatise of mineralogy covering all aspects of the science,

including crystallography. It only appeared in this single printing, which suggests that it was not well received, but it was as good as other French works of the period in which it was published.

REFERENCES: BMC: 2, 920.

**2434. — French, 1888.**

Analyse Chimique des Substances Commerciales Minérales et Organiques. Paris, 1888.

8°: xi, 948 p., illus.

VERY SCARCE. A textbook describing the chemical analysis of minerals and organic substances. It is focused especially on the commercial applications.

REFERENCES: BMC: 2, 920.

**JAGU.**

**2435. — French, 1838.**

Topographique Géologique et Minéralogique de Département de l'Indre et Loire. Tours, Impr. de Goisbault-Delebreton, 1838.

12°: 216 p. A topographical description of the geology and mineralogy in the regions of Indre and Loire in France. EXTREMELY RARE.

REFERENCES: BL: [no copy listed]. • NUC: [no copy listed].

**JAHRBUCH FÜR MINERLOGIE.**

See: Neues Jahrbuch Für Mineralogie.

**JAHRESBERICHT.**

**2436. — German, 1842-8 [Periodical].**

Jahresbericht über die Fortschritte der Chemie und Mineralogie von Jacob Berzelius. Tübingen, Heinrich Laupp, 1842-1848.

7 vols., 1842-1848.

VERY SCARCE. This scientific periodical was edited by Berzelius who also financed its publication. It contains papers on chemistry and mineralogy.

REFERENCES: Bolton, *Bibliography of Chemistry*, 1893: p. 18. • Bolton, *Catalogue of Periodicals*, 1897: no. 2295.

**JAKOWICKI, Ignacy.** (BORN: 1797; DIED: 1847) *Polish mineralogist & geologist.*

Jakowicki was a professor of mineralogy at the University of Wilno.

REFERENCES: Orgelbranda, *Encyklopedia Powszechna*, 1898-1912: 7, 385. • PBA: *Polskie Archiwum Biograficzne*: 168, 323-331. • *Polski Słownik Biograficzny*: 10, 335-6 [by Z. Kosiek]. • WBI.

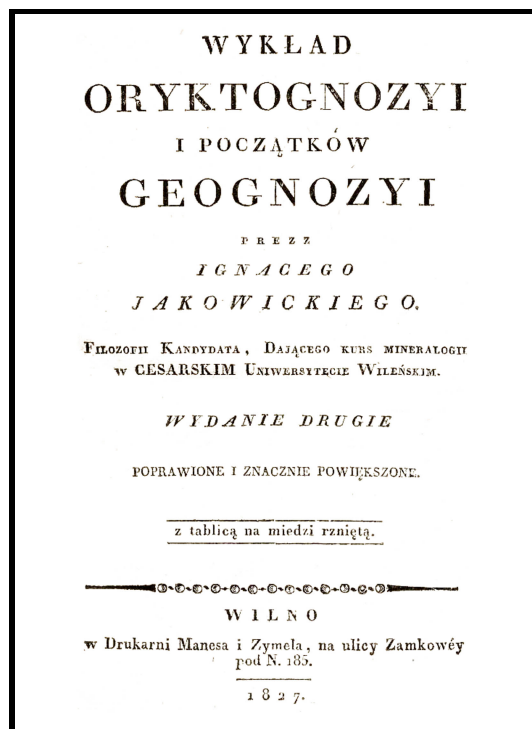
**2437. — Polish, 1825 [First edition].**

Krótki wykład Oryktognozy i Geognozyi podług ostatniego układu Wernera. Wilno, 1825.

2°: 2, 110 p., one table.

RARE. A description of mineralogy intended for the private student or amateur. It is based on the theories of Werner, but contains at in one section an essay on precious stones taken from Beudant.

REFERENCES: Fleszarowa, *Bibliografia Geologiczna Polski*, 1966: no. 1233. • Morozewicz, *Podręcznik Mineralogii*, 1900: Tschermak-Becke, *Podręcznik mineralogii*. (Warszawa, 1900), p. xx. • NUC: [no copy listed].



WYKŁAD ORYKTOGNOZYI, 1827

**2438. 2nd edition, 1827:** Wykład | Oryktognozyi i Początków | Geognozyi. | Prezz | Ignacego | Jakowickiego. | [...2 lines of titles and memberships...] | Wydanie Drugie | Poprawione i Znacznie Powiększone. | [rule] | z tablicą na miedzi rznąęą. [rule] | [ornate rule] | Wilno | w Drukarni Manesa i Zymela, na ulicy Zamkowej | pod N. 185. | [rule] | 1827.

8°: [6], [1]-396, [6] p., one plate (crystal drawings and apparatus).

CONTENTS: [2 pgs], Title page, verso printer's authorization.; [1 pg], Dedication.; [1 pg], Blank.; [2 pgs], "Przemowa" (=preface).; [1]-389, Text.; 390-396, "Dodatek | kształtach i Cenie Drogicki | Kamieni (=discussion of Beudant's classification of 1824).; [5 pgs], "Spis alfabetyczny ..." (=index).; [1 pg], "Omyłki."; [At end], One plate.

RARE. Oryctognosy is treated on pages 1-368, and geology on pages 369-396. The minerals are listed alphabetically, and mention is made of the various instruments.

REFERENCES: Fleszarowa, *Bibliografia Geologiczna Polski*, 1966: no. 1235. • Internet search. • NUC: [no copy listed].

**2439. — Polish, 1827.**

Mineralogia zastosowana do sztuk, rzemiosł, fabryk i rolnictwa. Wilno, N. Glücksberg, 1827.

8°: vii, [1], 107 p., one table.

RARE. Definitions of mineralogy, including a list of known species.

REFERENCES: Fleszarowa, *Bibliografia Geologiczna Polski*, 1966: no. 1234. • NUC: [no copy listed].

**JAMESON, Robert.** (BORN: Leith, Scotland, 11 July 1774; DIED: Edinburgh, Scotland, 19 April 1854)



## JAMESON

### *Scottish mineralogist & geologist.*

Jameson was a student of John Walker [1743-1804] at the University of Edinburgh. In 1800, he studied mineralogy and geology at the Freiberg Bergakademie under A.G. WERNER. In 1804, upon the death of Walker, he succeeded to the Regius Chair of Natural History, at the University of Edinburgh, a position he held until his own death. In 1808, he help found the WERNERIAN NATURAL HISTORY SOCIETY, and cofounded in 1819 with David Brewster [1781-1868], *The Edinburgh Philosophical Journal*. Jameson is today remembered as the greatest exponent of Werner's geological theories in Britain; however, later in life, he accepted Hutton's views. In 1826, he was elected a Fellow of the Royal Society. The mineral "Jamesonite" was named for him by W. HAIDINGER in 1825.

REFERENCES: *American Journal of Science*: 2nd Series, **18** (1854), no. 68, 156-70 & **70** (1855), 387-91. • *Annual Register*. • Barr, *Index to Biographical Fragments*, 1973: 133. • BBA: I 607, 301-337. • Chitnis, A.C., "The University of Edinburgh's Natural History Museum and the Huttonian-Wernerian debate," *Annals of Science*, **26** (1970), no. 2, 85-94. • Cleavelly, *World Palaeontological Collections*, 1983: 162. • DNB: **10**, 671-2. • DSB: **7**, 69-71 [by V. Eyles]. • *Eminent Scotsmen*: **2**, 383-6. • Eyles, V.A., "Robert Jameson and the Royal Scottish Museum," *Discovery*, **April 1954**, 155-62. • *ISIS*, 1913-65: **1**, 642. • Jameson, L., "Robert Jameson," *Edinburgh New Philosophical Journal*, **57** (1854), 1-49. [Biographical memoir by Jameson's nephew, providing fullest contemporary account.]. • Lambrecht & Quenstedt, *Catalogus*, 1938: 220. • Livingstone, *Minerals of Scotland*, 2002: p. 34-43, portrait. • Poggendorff: **1**, col. 1189. • *Proceedings of the Geological Society, London*: **11** (1855), xxxviii-xli. • Ritchie, J., "A double centenary, Robert Jameson and Edward Forbes," *Proceedings of the Royal Society of Edinburgh*, **66B** (1956), pt. 1, no. 3, 29-58, plates 1-4. • Ritchie, J., "Natural History and the Emergence of Geology in the Scottish Universities," *Transactions of the Edinburgh Geological Society*, **15** (1952), 297-316. • Sarjeant, *Geologists*, 1980: **2**, 1381-3, Suppl. 1 (1986), **1**, 528 & Suppl. 2 (1995), **1**, 762. • Sweet, J.M. and C.D. Waterston, "Robert Jameson's approach to the Wernerian theory of the earth, 1796," *Annals of Science*, **23** (1973), no. 2, 81-95. • Sweet, J.M., "Instructions to collectors: John Walker (1793) and Robert Jameson (1817): with biographical notes on James Anderson (LL.D.) and James Anderson (M.D.)," *Annals of Science*, **29** (1972), no. 4, 397-414, plates 1-2. • Sweet, J.M., "Robert Jameson's Irish Journal, 1797. Excerpts from Robert Jameson's 'Journal of my Tour in 1797'," *Annals of Science*, **23** (1973), no. 2, 97-126, plates 5-8. • Sweet, J.M., "Robert Jameson and Shetland: a family history," *The Scottish Genealogist*, **16** (1969), no. 1, 1-18. • Sweet, J.M., "Robert Jameson and the explorers: the search for the North-West Passage. Part I. 1. W. Scoresby (junior), C.L. Giesecke, M. Wormskiold and John Ross," *Annals of Science*, **31** (1974), no. 1, 21-47, plates 1-3. • Sweet, J.M., "Robert Jameson in London, 1793. Excerpts from Robert Jameson's 'Journal of a Voyage from Leith to London 1793'," *Annals of Science*, **19** (1963), no. 2, 81-116, plates 8-9. • Sweet, J.M., "The Wernerian Natural History Society of Edinburgh," *Freiberger Forschungshäfte, Series C*, no. 223 (1973), 205-218, figs. 1-4. • WBI. • *World Who's Who in Science*: 872.

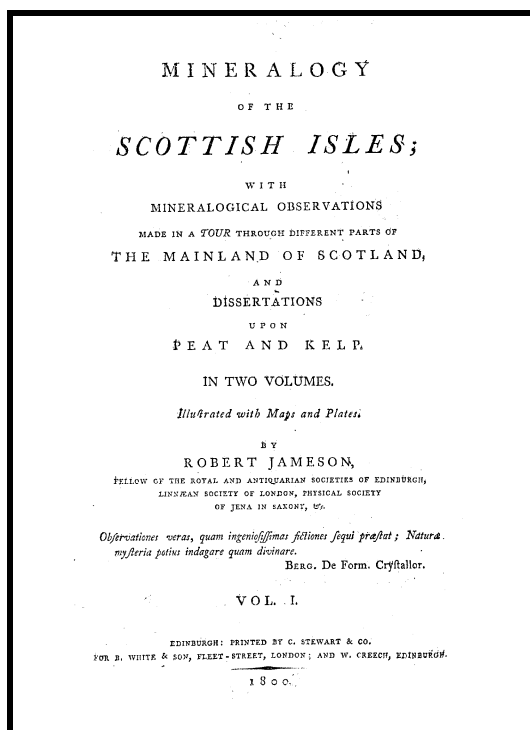
### 2440. — English, 1798.

An | Outline | Of The | Mineralogy | Of The | Shetland Islands, | And Of The | Island Of Arran. | [tapered rule] Illustrated With Copper-Plates. | [tapered rule] With An | Appendix; | Containing Observations On | Peat, Kelp, and Coal. | [double rule] By Robert Jameson, | [...2 lines of titles and memberships...] | [...2 lines of quotation,

signed "Bergm. De Form Crystallor."] | [ornate rule] | Edinburgh: | Printed For William Creech;—And T. Cadell, Jun. | And W. Davies, London. | 1798. 8°: [2], xiv, 202 p., plate, 2 maps.

RARE. Robert Jameson, who was descended from a Shetland family, was interested in natural history from childhood. When he became a student at Edinburgh University, he attended lectures on the subject given by John Walker [1731-1803], and was introduced to geology. Soon Jameson was his teacher's favorite student and was given charge of the university's museum and taken on field excursions. In 1794, at the age of 20, he decided to make the study of geology his life's work. Consequently, he spent his summers studying geology and natural history in the Shetland Islands, and in 1797, he arranged an extended visit to the Island of Arran. His observations on the nature of these two locations was published as his *Outline of the Mineralogy of the Shetland Islands and the Island of Arran*, the first modern geological examination of the region.

REFERENCES: BL: [990.i.20.]. • BMC: **2**, 923. • LKG: XIV 444.



### MINERALOGY OF THE SCOTTISH ISLES, 1800

### 2441. — English, 1800 [First edition].

Mineralogy | Of The | Scottish Isles; | With | Mineralogical Observations | made in a Tour through different parts of | The Mainland Of Scotland, | And | Dissertations | Upon | Peat

And Kelp. | In Two Volumes. | Illustrated with Maps and Plates. | By | Robert Jameson, | [...3 lines of titles and memberships...] | Observations veras, quam ingeniosissimas fictiones sequi præstat; Naturæ | mysteria potius indagare quam divinare. | Berg. De Form. Crystallor. | Vol. I. [-II.] | Edinburgh: Printed By C. Stewart & Co. | For B. White & Son, Fleet-Street, London; And W. Creech, Edinburgh. | [tapered rule] | 1800.

2 vols. [VOL 1] 4°:  $\pi^2$  b-d<sup>4</sup> A-Z<sup>4</sup> 2A-2G<sup>4</sup> 2H<sup>2</sup>; 136ℓ.; [i]-xxvi, [2], [1]-243, [1] p., 7 plates (one folding; numbered 1-7), one map (folding; "Map of Scotland Engraved for the Outline of the Mineralogy of the Scottish Isles."). [VOL 2] 4°:  $\pi^1$  b<sup>2</sup> A-Z<sup>4</sup> 2A-2N<sup>4</sup> 2O<sup>2</sup>; 149ℓ.; [2], [i]-iv, [1]-289, [3] p., 6 plates (numbered 8-13). PAGE SIZE: 254 x 204 mm.

CONTENTS: [Vol 1] [i-ii], Half title page, verso blank. [not present in copy examined]; [iii-iv], Title page, verso blank.; [v]-ix, "Preface."; [x], Blank.; [xi]-xii, "Contents."; [xiii]-xxvi, "Introduction."; [Folding map].; [1 pg], Dedication to Johan Walker, dated 20 July 1800.; [1 pg], Blank.; [1]-243, Text.; [1 pg], Blank.

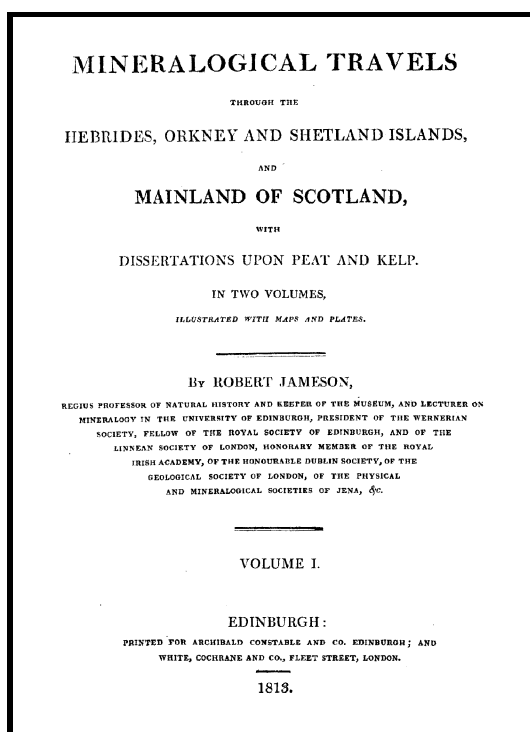
[Vol 2] [2 pgs], Title page, verso blank.; [i], Dedication to Charles Hatchet, dated 20 July 1800.; [ii], Blank.; [iii]-iv, "Contents."; [1]-279, Text.; [280], Blank.; [281]-289, "Index."; Colophon, page 289, "Printed by C. Stewart & Co. Forrester's Wynd, Edinburgh."; [1 pg], Blank.; [1 pg], "Errata."; [1 pg], Blank.

SCARCE. In 1798, Jameson spent the summer exploring the Hebrides and the Western Islands, and in 1799 he investigated the Orkneys and revisited Arran. As a result of these journeys he published the much expanded *Mineralogy of the Scottish Isles*, which incorporated much of the material from his former *Outline of the Mineralogy of the Shetland Islands and the Island of Arran* (London, 1798).

REFERENCES: *Freilich Sale Catalog*: no. 266. • LKG: XIV 445a. • Ward & Carozzi, *Geology Emerging*, 1984: no. 1192.

#### 2442. — English, 1813 [Reissue].

Mineralogical Travels | through the | Hebrides, Orkney and Shetland Islands, | and | Mainland of Scotland, | with Disserations upon Peat and Kelp. | In Two Volumes, | Illustrated with Maps and Plates. | [double rule] | By Robert Jameson, | Regius Professor of Natural History and Keeper of the Museum, and Lecturer on | Mineralogy in the University of Edinburgh, President of the Wernerian | Society, Fellow of the Royal Society of Edinburgh, and of the | Linnean Society of London, Honorary Member of the Royal | Irish Academy, of the Honourable Dublin Society, of the | Geological Society of London, of the Physical | and Mineralogical Societies of Jena, &c. | [double rule] | Volume I. | Edinburgh: | Printed for Archibald Constable and Co. Edinburgh; and | White, Cochran and Co., Fleet Street, London. | [rule] | 1813.



#### MINERALOGICAL TRAVELS, 1813

2 vols. in one. [VOL 1] 4°: xxvi, [2], 243 p., 2 (one folding) maps, 5 plates, one vignette; [VOL 2] 4°: [2], iv, 289, [2] errata and binder's directions p., 2 (one folding) maps, 4 plates, one vignette.

SCARCE. This is a reissue of the author's *Mineralogy of the Scottish Isles* (Edinburgh, 1800). A new title page designed to better describe the volumes contents replaces the previous one, but the text is still in the sheets of the 1800 printing. The large folding map shows Scotland and the plates and illustrations depict geological features.

REFERENCES: BMC: 2, 923.

2443. German transl., 1802: Herrn Robert Jameson's | Mineralogische Reisen | durch | Schottland und die Schottischen Inseln. | [tapered rule] | Aus dem Englisch übersetzt | und | von einem Auszuge | aus | Herrn Bergrath Werner's Geognosie, | die | Lehre von den Gebirgsarten | betreffend, | als Einleitung begleitet | von Heinrich Wilhelm Meuder. | [tapered rule] | Mit zwey Karten und zwey Kupfern. | [tapered rule] | Leipzig, 1802 | bey Siegfried Lebrecht Crusius.

4°: [i]-xiv, [i]-xlviii, [1]-256, [2] p., frontispiece (scenic view), one folding map (of Scotland). PAGE SIZE: 248 x 204 mm.

CONTENTS: [i-ii], Title page, verso blank.; [iii-iv], Dedication to A.G. Werner.; [v]-vi, "Vorrede des Uebersetzers."—signed Heinrich Wilhelm Meuder, March 1802.; [vii]-x, "Vorrede des Verfassers."; [xi]-xiv, "Inhaltsanzeige."; [i]-xlviii, "Einleitung."; [1], "Sectional title page, "Mineralogisch-Geographische | Beschreibung | der | Schottischen Inseln."; [2], Blank.; [3]-256, Text.; [1 pg], Errata.; [1 pg], Blank.; [At end], One folding map of Scotland.

VERY SCARCE. German translation by H.W. Meuder

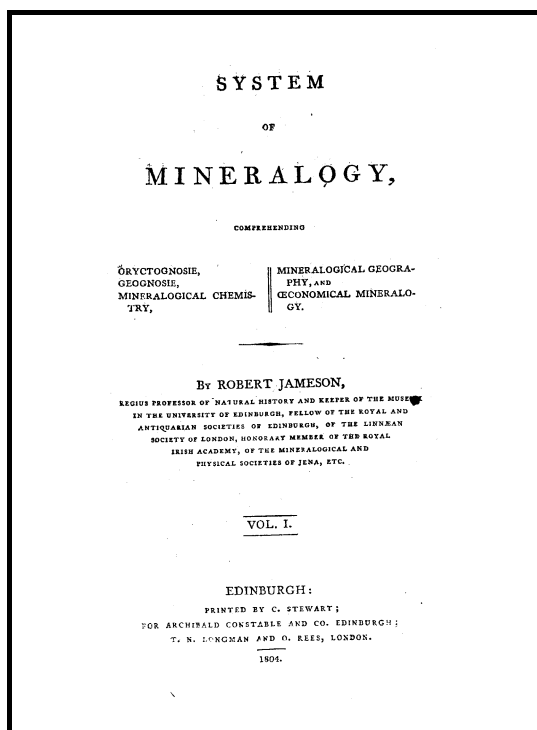
## JAMESON

of *Mineralogy of the Scottish Isles* (Edinburgh, 1800).

Heinrich Wilhelm Meuder. German naturalist & translator.

BIOGRAPHY NEEDED

REFERENCES: LKG: XIV 446b. (Meuder) DBA: I 833, 106-107. • Meusel, *Verstorbenen Deutschen Schriftsteller*, 1802-16. • WBI.



SYSTEM OF MINERALOGY, 1804

### 2444. — English, 1804-8 [First edition].

System | of | Mineralogy, | comprehending |  
[In two colums with a double vertical rule separator:]  
Oryctognosie, | Geognosie, | Mineralogical  
Chemis- | try, | [double vertical rule] | Mineralogical  
Geogra- | phy, and | (Economical Mineralo- |  
gy. | [tapered rule] | By Robert Jameson, |  
Regius Professor of Natural History and Keeper  
of the Museum | in the Universtiy of Edinburgh,  
Fellow of the Royal and | Antiquarian Societies  
of Edinburgh, of the Linnæan | Society of London,  
Honorary Member of the Royal | Irish Academy,  
of the Mineralogical and | Physical Societies of Jena,  
Etc. | [rule] | Vol. I. | [rule] | Edinburgh: | Printed  
by C. Stewart; | For Archibald Constable and Co.  
Edinburgh; | T.N. Longman and O. Rees, London.  
| [rule] | 1804.

3 vols. [VOL 1: 1804] 4°:  $\pi^4$  a-f<sup>4</sup> B-4K<sup>4</sup>; 338ℓ.; [8], [i]-xlvi, [1], [1]-607, [1], [1]-11, [1] p., 11 plates (folding).

[VOL 2: 1805] 4°:  $\pi^2$  A-4I<sup>3</sup> 4K<sup>3</sup>; 316ℓ.; [4], [1]-625, [3] p., 5 plates (folding). [VOL 3: 1808] 4°:  $\pi^4$  a<sup>4</sup> A-3B<sup>4</sup> 3C<sup>2</sup>; 204ℓ.; [i]-xvi, [1]-368, [24] p., one table (folding; p. 50).  
PAGE SIZE: 208 x 130 mm.

CONTENTS: [Vol 1] [2 pgs], Title page, verso blank; [1 pg], "System | Of | Oryctognosie, | According To The Method Of The Illustrious | Werner Of Freyberg."; [1 pg], Blank; [1 pg], Dedication to Colonel Alexander Diron, signed Robert Jameson, 30 April 1804.; [3 pgs], Blanks.; [i]-xviii, "Preface."; [xix]-xliii, "Introduction."; [xliv], Blank; [xlv]-xlvii, "Books Quoted | In This | Work."; [1 pg], Blank.; [1]-18, "Tabular View | Of The | Mineral System."; [19]-607, Text.; [1 pg], Blank.; [1]-11, "Explanation | Of The | Plates."; [1 pg], Blank.; [At end], Plates I-XI.

[Vol 2] [2 pgs], Title page, verso "Printed by A. Neill & Co. | Edinburgh 1805."; [1 pg], Advertisement, signed R.J. [=Robert Jameson], 30 June 1805.; [1 pg], Blank.; [1]-523, Text.; [524], Blank.; [525], "Appendix."; [526], Blank.; 527-559, "Appendix I. | Fossils Lately Described By Werner, And Ad- | mitted Into This System."; [Plates bound in at page 528].; [560], Blank.; 561-586, "II. | Miscellaneous Appendix."; 587-596, "Appendix III." [=synopsis of classification system].; 597-618, "Appendix IV." [=descriptions of new mineral species].; 619-625, "Index | To The First And Second Volumes."; [1 pg], Blank.; [1 pg], "Corrigenda."; [1 pg], Works published by Jameson. [Vol 3] [i-ii], Title page, verso "Printed by A. Neill & Co. | Edinburgh, 1808."; [iii], "Elements | Of | Geognosy. | Being Vol. III. and Part II. | Of The | System Of Mineralogy."; [iv], Blank.; [v], Dedication to Sir Joseph Banks, signed Robert Jameson, 15 January 1808.; [vi], Blank.; [vii], Preface.; [viii], Blank.; [ix]-xvi, "Contents."; [1]-367, Text.; 368, "Corrections And Additions."; [22 pgs], "Index | To The Three Volumes."; [1 pg], "Works Published By Mr. Jameson, ..."; [1 pg], Blank.

VERY SCARCE. In the preface to this work, Jameson reviews the classifications of Cronstedt and Wallerius and introduces Werner's classification which he then adopts for the work. The first two volumes are a descriptive mineralogy, based upon Wernerian doctrines. The third volume, published in 1808, is subtitled "Elements of Geognosy" and comprised the first detailed explanation in English of Werner's geological theories and his classification of the rock strata.

REFERENCES: BMC: 2, 923. • Dana's 7th (Bibliography): 74. • *Edinburgh Review*: 5 (1808), 64. • Sweet, J.M. and C.D. Waterston, "Robert Jameson's approach to the Wernerian theory of the earth, 1796," *Annals of Science*, 23 (1973), no. 2, 81-95.

2445. 2nd edition, 1816: A | System | of | Mineralogy. | [double rule] | By | Robert Jameson, | [... 10 lines of memberships and titles ...] | [double rule] | Second Edition. | [double rule] | Vol. I [-III]. | [tapered rule] | Edinburgh: | Printed by Neill & Company, | For Archibald Constable and Company, Edinburgh; and | Longman, Hurst, Rees, Orme & Brown, London. | [rule] | 1816.

3 vols. [vol 1] 8°:  $\pi^5$  b<sup>8</sup> A-2K<sup>8</sup> 2L<sup>4</sup>; 284ℓ.; [1]-8, [2], [i]-xix, [1], [1]-537, [1] p., plates I-V (folding).; [vol 2] 8°:  $\pi^3$  a<sup>4</sup> A-2G<sup>8</sup> 2H<sup>6</sup>; 259ℓ.; [2], [i]-xiii, [1], [1]-489, [3] p., plates VI-VIII (folding).; [vol 3] 8°:  $\pi^3$  a<sup>4</sup> A-2P<sup>8</sup>; 310ℓ.; [2], [i]-xii, [1]-599, [1], [1]-4, [2] p., plates IX-XIII (folding).  
PAGE SIZE: 214 x 132 mm.

CONTENTS: [Vol 1] [1]-8, "New Works | Preparing For Publication | ..."; [2 pgs], Blanks.; [i-ii], Half title page, verso blank.; [iii-iv], Title page, verso blank.; [v]-viii, "Preface."—dated April 1816.; ix-xiv, "List | Of | Works."; [xv]-xix, "Table Of Contents | Of | Volume First."; [1 pg], Blank.; [1]-537, Text.; [1 pg], Blank.; [At end], Plates I-V.

[Vol 2] [2 pgs], Blanks.; [i-ii], Half title page, verso

blank.; [iii-iv], Title page, verso blank.; [v]-xiii, "Table Of Contents | Of | Volume Second."; [1 pg], Blank.; [1]-489, Text.; [1 pg], Blank.; [2 pgs], "Works Published | By | ArchD. Constable & Co. Edinburgh."; [At end], Plates VI-VIII.

[Vol 3] [2 pgs], Blanks.; [i-ii], Half title page, verso blank.; [iii-iv], Title page, verso blank.; [v]-xii, "Table Of Contents | Of | Volume Third."; [1]-572, Text.; [573]-581, "Indices. | English Index."; [582], Blank.; 583-592, "German Index."; 593-599, "French Index."; [1 pg], Blank.; [1]-4, "...Supplement | to the | Fourth And Fifth Editions | Of The | Encyclopædia Britannica | ..."; [2 pgs], Blanks.; [At end], Plates IX-XIII.

VERY SCARCE. Enlarged and corrected edition. The present work represents the sum of mineralogical knowledge extant in the early years of the 19th century. The first volume opens with a list of works consulted and is followed by a systematic description of species, according to classes, which continues into the second volume. Here it is followed by a series of appendices of additional species, additional British localities, and a tabular view of other systems of mineralogy, beginning with Linné 1736 and including all the important classification schemes to Jameson's day. The third volume is devoted to metallic minerals and closes with indices to all volumes in English, German, and French. The plates show various crystal forms.

REFERENCES: BMC: 2, 923. • Dana's 7th (Bibliography): 74. • *Edinburgh Review*: 5 (1808), 64.

**2446. 3rd edition, 1820:** A | System | of | Mineralogy, | in which | Minerals are Arranged According to | the Natural History method. | [double rule] | By | Robert Jameson, | [... 14 lines of memberships and titles ...] | [double rule] | Third Edition, Enlarged and Improved. | [double rule] | Vol. I [-III]. | Edinburgh: | Printed for Archibald Constable & Co. Edinburgh: | And Hurst, Robinson & Co. Cheapside, London. | [rule] | 1820.

3 vols. [VOL 1] 8°:  $\pi^2$  a-h<sup>8</sup> i<sup>4</sup> A-2B<sup>8</sup> 2C<sup>3</sup>; 273ℓ.; [4], [i]-cxxxvi, [1]-405 p., plates I-IV; [VOL 2] 8°:  $\pi^7$  A-2Q<sup>8</sup> 2R<sup>4</sup>; 343ℓ.; [iii]-xvi, [1]-632 p., plates V-VIII; [VOL 3] 8°:  $\pi^7$  A-2O<sup>8</sup>; 305ℓ.; [iii]-xvi, [1]-596 p., plates IX-XII. PAGE SIZE: 208 x 128 mm.

CONTENTS: [Vol 1] [2 pgs], Title page, verso "P. Neill, Printer."; [1 pg], Dedication to Robert Ferguson.; [1 pg], Blank.; [i]-vi, "Preface."—dated November 1819.; [vii]-x, "General Contents | Of The Work."; xi-xvi, "List | Of | Works | Quoted in this Treatise, and the Abbreviated Titles employed."; [xviii]-lxxxvi, "Tabular View | Of | Systems | Of | Mineralogy, | Since the Publication of the Arrangement of | Linnaeus, A.D. 1736."; [lxxxviii]-cxxx, "Characteristic Or Tabular View | Of The | Classes, Orders, Genera, And Species | Of The | Mineral System."; cxxxi-cxxxvi, "Table Of Contents | Of | Volume First."; [1]-405, Text.; [1 pg], Blank.; [At end], Plates I-IV.

[Vol 2] [i-ii], Half title page, verso blank. [not seen in any copy examined]; [iii-iv], Title page, verso "P. Neill, Printer."; [v]-xvi, "Table Of Contents | Of | Volume Second."; [1]-632, Text.; [At end], Plates V-VIII.

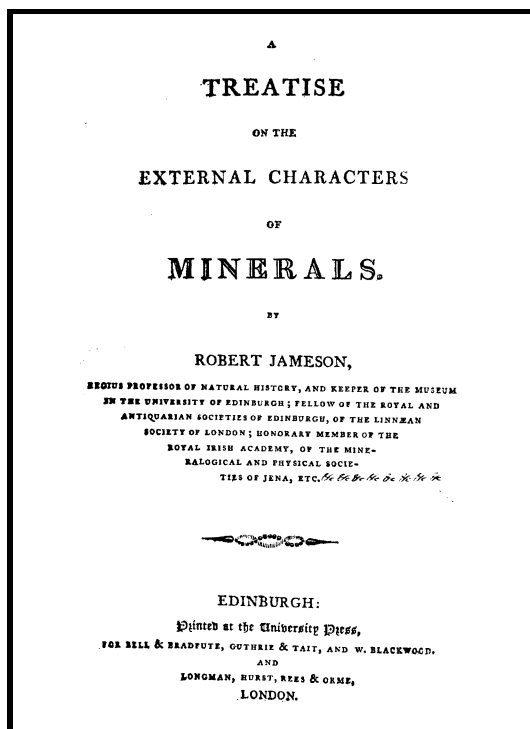
[Vol 3] [i-ii], Half title page, verso blank. [not seen in any copy examined]; [iii-iv], Title page, verso "P. Neill, Printer."; [v]-xvi, "Table Of Contents | Of | Volume Third."; [1]-566, Text.; [567], "Indices."; [568], Blank.; [569]-580, "English Names."; 581-589, "German Index."; 590-596, "French Index."; [At end], Plates IX-XII.

VERY SCARCE. Completely rewritten and revised to conform to Frederick Mohs natural history method of classification.

REFERENCES: BMC: 2, 923. • Dana's 7th (Bibliography): 74. • *Edinburgh Review*: 5 (1808), 64. • *Freilich Sale Catalog*: no. 267. • Ward & Carozzi, *Geology Emerging*, 1984: no. 1196.

**2447. — English, 1805** [First edition].

A | Treatise | On The | External Characters | Of



TREATISE ON THE EXTERNAL CHARACTERS, 1805

| Minerals. | By | Robert Jameson, | [...7 lines of titles and memberships...] | [ornate rule] | Edinburgh: | Printed at the University Press, | For Bell & Bradfute, Guthrie & Tait, And W. Blackwood, | And | Longman, Hurst, Rees & Orme, London.

8°:  $\pi^4$  A-L<sup>4</sup> (2 folding plates) A-D<sup>4</sup>; 48ℓ.; [8], [1]-84, [1]-3, [1] p., 2 folding plates, [1]-32 p. PAGE SIZE: 200 x 116 mm.

CONTENTS: [2 pgs], Title page, verso blank.; [1 pg], Advertisement, dated 20 November 1805.; [1 page], Blank.; [1 pg], Dedication to William Wright.; [2 pgs], "Tabular View | Of The | Generic External Characters | Of | Minerals."; [1 pg], Blank.; [1]-84, Text.; [1]-3, "Explanation of the Plates."; [1 pg], Blank.; [1]-32, "Tabular View | Of The | Different Generic and Subordinate Species | Of External Characters | Of | Minerals."

VERY SCARCE. The text of Jameson is preceded by Werner's "Tabular View of the Generic External Characters of Minerals," published separately in 1804. The publication year of the work is taken from the advertisement.

REFERENCES: BMC: 2, 923. • Dana's 7th (Bibliography): 74. • *Edinburgh Review*: 6 (1805), 228.

**2448. 2nd edition, 1816:** A | Treatise | on the | External, | Chemical, and Physical Characters | of | Minerals. | [double rule] | By Robert Jameson, | Regius Professor of Natural History, | and | Lecturer on Mineralogy in the University of Edinburgh, | &c. &c. &c. | [double rule] | Second Edition. | [double rule] | Edinburgh: | Printed by Neill & Company, | For Archibald Constable and Company, Edinburgh; and | Longman, Hurst, Rees, Orme & Brown, London. | [rule] | 1816.

8°:  $\pi^5$  A-2P<sup>4</sup> 2Q<sup>2</sup>; 160ℓ.; [i]-xi, [1], [1]-307, [1] p., 7

JAMESON

folding plates of crystal drawings. PAGE SIZE: 210 x 128 mm. VERY SCARCE.

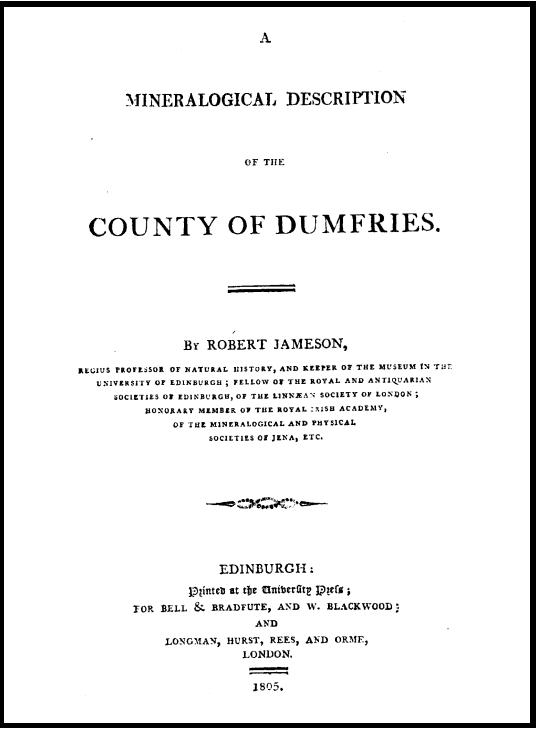
CONTENTS: [i-ii], Title page, verso blank.; [iii]-vii, "Advertisement."; [viii], Blank.; [ix]-xi, "Contents."; [1 pg], Blank.; [1]-269, Text of external characters.; [270], Blank.; [271], Sectional title page, "Chemical Characters | Of | Minerals."; [272]-294, Text.; [295], Sectional title page, "Physical Characters | Of | Minerals."; [296], Blank.; 297-304, Text; 305-307, Publisher's list.; [1 pg], Blank.

REFERENCES: Dana's 7th (Bibliography): 74. • *Freilich Sale Catalog*: no. 392.

**2449. 3rd edition, 1817:** A | Treatise | on the | External, | Chemical, and Physical Characters | of | Minerals. | [double rule] | By Robert Jameson, | [...12 lines of titles and memberships...] | [double rule] | Third Edition. | [double rule] | Edinburgh: | Printed by Neill & Company, | For Archibald Constable and Company, Edinburgh; and | Longman, Hurst, Rees, Orme & Brown, London. | [rule] | 1817.

8°: xv, 314, [2] p., frontispiece, 7 plates.  
VERY SCARCE. Gives external features of minerals, color, external optical effects, crystallography after Haüy, physical properties, chemistry, blowpiping, and more. The plates show crystal forms, some of Haüy's built-up models after his "molecule integrant," and various goniometers.

REFERENCES: BMC: 2, 923. • Hoover Collection: no. 451.



MINERALOGICAL DESCRIPTION, 1805

**2450. — English, 1805.**

A | Mineralogical Description | of the | County of Dumfries. | [double rule] | By Robert Jameson, | [...6 lines of memberships and titles...] | [ornate rule] | Edinburgh: | Printed at the University Press; | For Bell & Bradfute, and W. Blackwood; | and

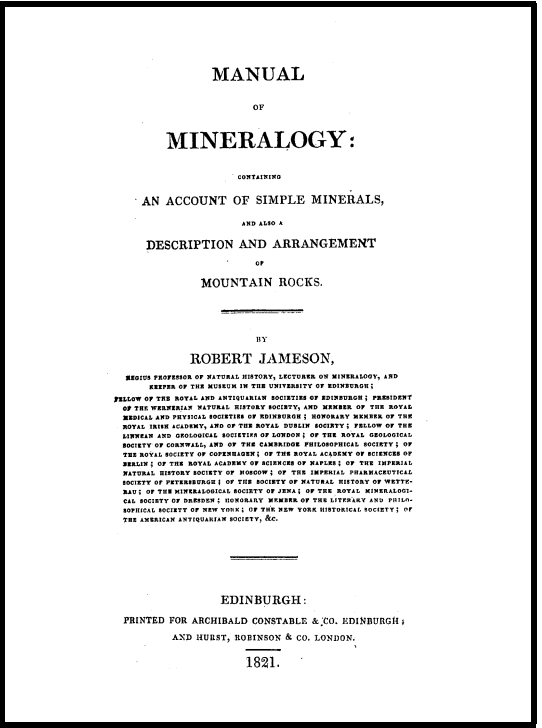
| Longman, Hurst, Rees, and Orme, | London. | [double rule] | 1805.

8°:  $\pi^4$  b<sup>8</sup> B-2A<sup>4</sup> 2B<sup>2</sup>  $\chi^2$ ; 107 $\ell$ .; [i]-xxi, [3], [1]-185, [1], [1]-2, [2] p., frontispiece (folding map of Dumfries Shire by William Crawford), 4 plates (geological cross-sections). PAGE SIZE: 226 x 142 mm.

CONTENTS: [i-ii], Half title page, "A | Mineralogical Description | of | Scotland. | Volume I | Part I. | County Of Dumfries," verso blank.; [Frontispiece].; [iii-iv], Title page, verso blank.; [v], Dedication to A.G. Werner, signed Robert Jameson, 10 October 1804.; [vi], "Errata."; [vii]-ix, "Preface."; [x], Blank.; [xi]-xxi, "Introduction."; [3 pgs], Blank.; [1]-185, Text.; [1 pg], "Errata."; [1]-2, "Explanation Of Plates."; [4 plates of geological cross-sections].; [1 pg], Advertisement.; [1 pg], Blank.

VERY SCARCE. No more published. The first and only portion published of a proposed mineralogical description of Scotland, which the half title reflects, "A Mineralogical Description of Scotland. Vol. 1, part 1. County of Dumfries." It was not until Heddle published his masterwork on the mineralogy of Scotland that a comprehensive handbook existed to this area. Provides a Wernerian view in geological descriptions.

REFERENCES: *Edinburgh Review*: 6 (1806), 228.



MANUAL OF MINERALOGY, 1821

**2451. — English, 1821.**

Manual | of | Mineralogy: | containing | an Account of Simple Minerals, | and also a | Description and Arrangement | of | Mountain Rocks. | [double rule] | By | Robert Jameson, |

[... 16 lines of memberships and titles ...] | [double rule] | Edinburgh: | Printed for Archibald Constable & Co. Edinburgh; | An Hurst, Robinson & Co. London. | [rule] | 1821.

8°:  $\pi^4$  a-c<sup>8</sup> d<sup>4</sup> A-2H<sup>8</sup>; 280 $\ell$ .; [8], [i]-liv, [2], [1]-501 (i.e., 491), [5] p. Page 473 misnumbered 472. PAGE SIZE: 210 x 126 mm.

CONTENTS: [2 pgs], Half title page, verso blank.; [2 pgs], Title page, verso, "P. Neill, Printer."; [1 pg], Dedication to Thomas Mackenzie, signed Robert Jameson, 2 April 1821.; [1 pg], Blank.; [1 pg], "Corrigenda."; [1 pg], Blank.; [i]-xvii, "Introduction."; [xviii], Blank.; xix-xxiii, "...Characters of the Classes."; [xxiv], Blank.; xxv-liv, "Table Of Conents."; [1 pg], "System | Of | Mineralogy."; [1 pg], Blank.; [1]-307, Text.; [308], Blank.; [309], "Appendix | To The | System, | Containing | Descriptions of some Minerals, which do not | occur Regularly Crystallized, and of others whose | Specific Characters have not been completely de- | terminated."; [310], Blank.; 311-334, Text of appendix.; [335]-466, "Description And Arrangement | Of | Mountain Rocks."; 467-470, "Descriptions Omitted."; [471], "Indices."; 472 (i.e., 473)-482, "Index | To The | Simple Minerals. | English Names."; 483-488, German And French Names."; 489-501 (i.e., 491), "Index | To The | Mountain Rocks."; [1 pg], Blank.; [4 pgs], Publisher's list.

SCARCE. This *Manual* contains an account of simple minerals and mountain rocks. Jameson has extracted descriptions of the most common minerals and abstracted the information from the fuller treatment he provides in his three volume *System of Mineralogy* (London, 1820) to create the more concise treatment given in this work. The rocks are arranged according to their geological relations, and the descriptions and history are given in such a manner that the student will be able to determine the nature of the veins and strata of a country. The introduction begins with a sketch of Mohs classification system, and the basic characters used to distinguish between species. The text then presents a descriptive mineralogy arranged in the Classes and Orders of Mohs classificatory system. Also contained is a long section on the description and arrangement of mountain rocks. It is based on Mohs' classification system which first appeared in 1820.

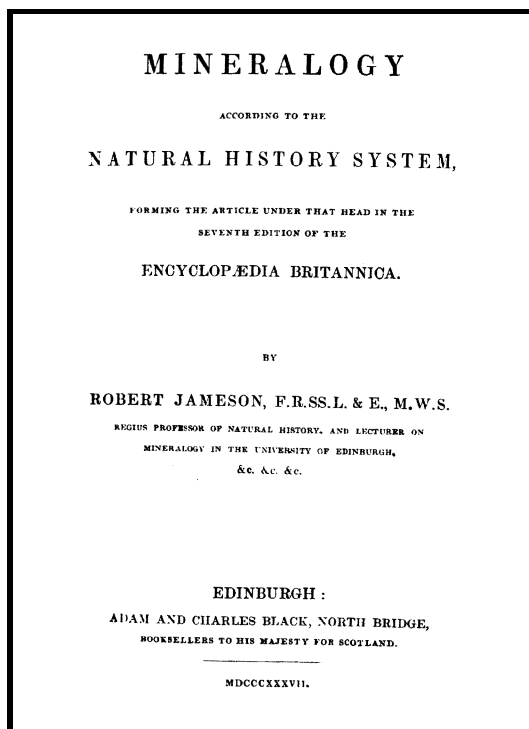
REFERENCES: BMC: 2, 924. • *Freilich Sale Catalog*: no. 268. • NUC. • Roller & Goodman, *Catalogue*, 1976. • Ward & Carozzi, *Geology Emerging*, 1984: no. 1203.

#### 2452. — English, 1837.

Mineralogy | according to the | Natural History System, | forming the Article under that head in the | seventh edition of the | Encyclopædia Britannica. | By Robert Jameson, F.R.SS.L. & E., M.W.S. | Regius Professor of Natural History, and Lecturer on | Mineralogy in the University of Edinburgh, & c. & c. & c. | Edinburgh: | Adam and Charles Black, North Bridge, | Booksellers to his Majesty for Scotland. | [rule] | MDCCCXXXVII.

8°:  $\pi^{12}$  A-X<sup>8</sup> Y<sup>4</sup> Z<sup>6</sup> 2A<sup>4</sup>; 154 $\ell$ .; [i]-xxiv, [1]-283, [1] p., 4 folding plates (crystal drawings). PAGE SIZE: 202 x 118 mm.

CONTENTS: [i-ii], Half title page, "Mineralogy |



MINERALOGY, 1837

According To The | Natural History System," verso "Printed By Neill And Co., Old Fishmarket, | Edinburgh."; [iii-iv], Title page, verso blank.; [v]-vi, Advertisement, dated 24 May 1837.; [vii]-viii, "Contents."; [ix]-xv, "Characters | Of The | Classes And Orders."; [xvi]-xxiv, "Tabular View | Of The | Classes, Orders, Genera, And Species."; [1]-272, Text.; [273], Sectional title page, "Index."; [274], Blank.; 275-283, Index text.; [1 pg], Blank.

SCARCE. The text was originally printed in the supplement volume to the *Encyclopaedia Britannica*; however, it was printed in this separate form to make it more readily available for the use of the students of mineralogy. Although written for the beginner, it could also be consulted by more advanced mineralogists. Jameson bases his classification upon the system proposed by Friedrich Mohs, which was the reigning natural history method.

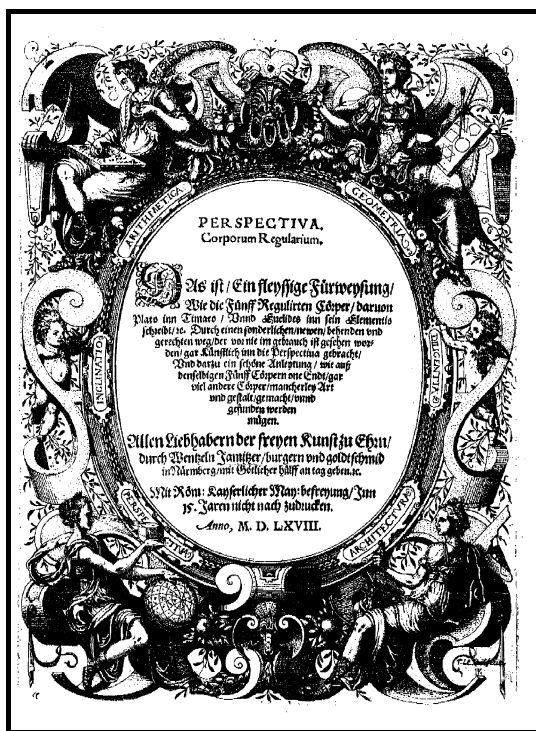
In the *Characters of Minerals*, all the typical physical properties such as cleavage, hardness, specific gravity, color, lustre, fracture, transparency, crystallization, etc. Jameson then presents his system of arrangement, and his method for determining the mode of a mineral, so that it could be placed correctly in the system. More than half of the volume is then given over to presenting a descriptive mineralogy arranged in the system.

REFERENCES: BMC: 2, 924. • NUC. • Roller & Goodman, *Catalogue*, 1976.

**JAMITZER (Jammitzer), Wentzel.** (BORN: Nürnberg, Germany, 1508; DIED: Nürnberg, Germany, 15 December 1586) *German goldsmith.*

German goldsmith and jeweller, Jamitzer also worked as a copper engraver in Nürnberg.

REFERENCES: ADB. • Bott, G., ed., *Wenzel Jamitzer und die Nürnberger Goldschmiedekunst 1500-1700. Goldschmiedearbeiten, Entwürfe, Modelle, Medaillen, Ornamentstiche, Schmuck, Porträts*. Nürnberg, Germanisches Nationalmuseum, 1985. XII, 532 p., 20 colored plates, 764 illus. • Jöcher, *Gelehrten-Lexikon*, 1750-51. • NDB. • Poggen-dorff: 1, col. 1190. • Thieme & Becker, *Allgemeines Lexikon*, 1907-50. • WBI.



PERSPECTIVA CORPORUM REGULARIUM, 1568

#### 2453. — German, 1568.

[Contained within an engraved, highly ornamental oval frame:] *Perspectiva. | Corporum Regularium. | Das ist/ Ein fleysige Fürweysung/ | Wie die Fünff Regulierten Körper/ darvon Plato inn Timaeo/ Vnd Euclides inn sein Elementis | schreibt/ &c. Durch einen sonderlichen/ neuen/ behenden vnd | gerechten weg/ der vor nie im gebrauch ist gesehen wor= | den/ gar Künstlich inn die Perspectiva gebracht/ | Vnd darzu ein schöne Anleitung/ wie auß | denselbigen Fünff Körpern one Endt/ gar | viel andere Körper/ mancherley Art | vnd gestalt/ gemacht/ vnd | gefindne werden | mögen. | Allen Liebhabern der freyen Kunst zu Ehrn/ | durch Wenzeln Jamitzer/ burgern vnd goldtschmid | in Nürnberg/ mit Götlicher hülf an tag geben. &c. | Mit Röm: Kayserlicher May: befreynung/ Inn | 15. Jaren nicht nach zudrucken. | Anno, M. D. LXVIII.*

2°: a<sup>4</sup> A-G<sup>6</sup> H-I<sup>4</sup> (I4 blank; a1, A-H engraved, with some letterpress legends); 53ℓ.; [8] p. (p. [8] blank), [49] leaves of plates. Title within an engraved illustrative border.

VERY SCARCE. Engraving attributed to Jost Amman [see note below].

Facsimile reprint, 1971: *Perspectiva Corporum Regularium*. Nachdruck der Ausgabe Nürnberg 1568. Mit 50 Kupferstichen v. Jost Amman. Graz, Akad. Druck- und Verlagsanstalt 1973.

Facsimile reprint, 1981: *Perspectiva Corporum Regularium*. Preface d'Albert Flocon. Paris, Gutenberg Reprints, 1981. 2°: 41, [14] p., [54] leaves of plates.

Original text in German; introductory matter in French. Added titlepage for the introduction titled: Jamitzer, orfèvre de la rigueur sensible: etude sur la Perspectiva corporum regularium by Albert Flocon. A bibliography can also be found on page [52] of this issue. ISBN: 2714414109.

Jost Amman. (BORN: 1539; DIED: 1591) *Swiss metal engraver*. Amman worked for a time in Nürnberg.

REFERENCES: Andresen, *Deutsche Peintre-Graveur*, ????: 1, 173. • BL: [C.113.hh.2.]. • Darmstädter, *Steinbücher*, 1934. • Marx, *Geschichte der Crystallkunde*, 1825: 25. • Poggen-dorff: 1, 1190. (Amman) ADB. • Bryan's *Dictionary of Painters*, 1903-4: 1, ?? . • DBA: I 21,25-427; II 27,308-319, 344-345; 28, 18-32. • *Encyclopaedia Britannica*, 11th edition. • Ferchl. • Jöcher, *Gelehrten-Lexikon*, 1750-51. • Nagler, *Neues allgemeines Künstler-Lexikon*, 1835-52. • *Nouvelle Biographie Générale* (Hoefer). • NDB. • Thieme & Becker, *Allgemeines Lexikon*, 1907-50. • WBI. • Will, *Nürnbergisches Gelehrten-Lexikon*, 1755-1808.

2454. 3rd edition, 1626: *Perspectivae Sintagma, in quo varia eximiaeque corporum diagrammata ex praescripto Opticae exhibentur: inprimis necessarium & utile opus omnibus artis Perspectivae cultoribus*. Amsterdam, J. Janssonius, 1626.

4°: [4] p., engraved title page, 51 double-leaf copper plates (2 colored) by Jost Amman.

VERY SCARCE. Extremely scarce third edition of Jamitzer's famous book on perspective. "A masterpiece of geometric design" (George Hart). The bibliographies mention the work, but were apparently unable to supply correct collations, this third ed. is unknown to them. Our copy comprises a title page with engr. border and 51 double-page engraved plates by Jost Amman after Jamitzer (called for by Cicognara). They are numbered AI-VI, BI-VI, CI-VI, DI-VI, EI-VI, FI-VI, GI-VI, HI-IV, and I1-3, so the only complete copy recorded during the last 60 years.

Dritte Ausgabe, den Bibliographen unbekannt. Vgl. Cicognara 859, Andresen I, S. 175 ("nie gesehen"), Becker, Amman S. 178 u. Ornamentstichkat. Bln. 4893 (für die Ausg. 1578 u. 1618). - Dritte Ausgabe von Jamitzers berühmter "Perspectiva corporum regularium". Die von Doppelmayr aufgestellte Behauptung, es handle sich um Nachstiche, wird von Becker nicht bestätigt, er spricht lediglich von einem "späteren Abdruck". Ein unkl. Expl. (nur 46 Taf., I1-3 fehlend) der 2. A. (1618) erzielte bei unserer Auktion 56 EUR 30.000. - Diese merkwürdige, fast modern anmutende Kupferstichserie stellt in Form regelmäßiger perspektivischer Gebilde die 4 Elemente Feuer, Luft, Erde und Wasser sowie den Himmel und ferner perspektivische Variationen dar. Zu jedem dieser Motive eine Art allegor. Titelblatt (vorn 1 unbez. Faltaf. als Frontispiz mit Allegorien der Arithmetik, Geometrie, Perspektive, Architektur, weiter Bl. A1, A6, B5, C4, D3, E2) aus Renaissanceornamenten, Grottesken, Putten, Kindern und entsprechenden Attributen gegenständlicher Natur versehen. Die Titelblätter tragen weitgehend die Initialen Jost Ammans. - Aufgrund der Seltenheit des Werkes konnten wir kein Vergleichsexemplar mit genauer Kollation feststellen. Cicognara fordert 51 Tafeln, die bei uns vorhanden sind, dazu der gest. Titel. Unser Ex. daher

wohl das einzige im Handel nach dem Krieg nachweisbare vollständige. - Kupfertit. bis zum Plattenrand beschn. u. aufgezogen. Textbll. u. 2 Faltaf. oben leicht angeschnitten. Sonst sehr schönes, kaum fleckiges Expl.

REFERENCES: Reiss & Sohn, Auctioneers: Auction Sale 88 (2003), lot 1874.

**JANNETTAZ, Pierre Michel Édouard.** (BORN: Paris, France, 1832; DIED: Paris, France, 1899) *French scientist.*

Jannettaz graduated with a degree in physics and chemistry. He joined the Natural History Museum in Paris in 1859. He received the Legion of Honor in 1885.

**2455. — French, 1881.**

Diamant | Et | Pierres Précieuses |  
Cristallographie - Descriptions - Emplois |  
Evaluation - Commerce | [rule] | Bijoux - Joyaux -  
Orfèvreries | Au Point De Vue De Leur Histoire Et  
De Leur Travail | Ouvrage orné de 350 Vignettes et  
d'une Planche en Couleur | Par | [In two columns  
separated by rule, left:] Ed. Jannettaz | Maître de  
Conferences à la Faculté | des Sciences | Aide-  
Naturaliste au Muséum | Em. Vanderheyem |  
Président de la Chambre syndicale des | Diamants  
et des Pierres précieuses | [Right column:] E.  
Fontenay | Joaillier-bijoutier | Membre de la  
Chambre de Commerce | de Paris | A. Coutance  
| Professeur de Sciences naturelles aux | Ecoles de  
Médecine de la Marine | [ornament] | Paris | J.  
Rothschild, Éditeur | 13, Rue Des Saints-Pères, 13  
| [rule] | 1881 | Tous Droits réservés.

8°: [i]-xii, [1]-580 p., one colored plate, text illus.  
Title in red and black. PAGE SIZE: 242 x 160 mm.

CONTENTS: [i-ii], Half title page, verso printer  
information.; [Frontispiece]; [iii-iv], Title page, verso  
blank.; [v]-vii, "Avant-Propos."; [viii], "Errata."; [ix]-xii,  
"Table Des Matières."; [1]-572, Text.; [573]-580, "Table  
Alphabétique | Des Matières Et Des Figures."

SCARCE. One of the principal work on gemstones  
in the French language during the late nineteenth  
century. The first portions describe crystallography  
in considerable detail, followed by properties, optics,  
chemistry, and occurrences. Another section considers  
the history and problems of the nomenclature of  
gemstones. At the end, the book closes with  
information on jewelry and the work of goldsmith.

REFERENCES: BMC: 2, 925. • NUC. • Sinkankas,  
*Gemology Bibliography*, 1993: no. 3181 [incorrect pagina-  
tion]. • *USGS Library Catalog*.

**2456. — French, 1910.**

Les Roches et leur Éléments Minéralogiques ...  
Paris, A. Hermann Fils, 1910.

8°: 704 p., illus.

VERY SCARCE. An introductory work to the study  
of rocks, including the basic elements of mineralogy.

REFERENCES: NUC. • *USGS Library Catalog*.

**JANSON, A. von.**

**2457. — German, 1892** [Collection catalog].

Die Mineralien-Sammlung des A. von Janson auf  
Schloss Gerdauen in Ostpreussen. ... Charlotten-  
burg, A. Gertz, 1892.

8°: 147 p. (chiefly tables). RARE.

REFERENCES: NUC.

**JARDIN, Édélstan.**

**2458. — French, 1862.**

Essai sur l'Histoire Naturelle de l'Archipel  
des Marquises, comprenant: la Géologie et la  
Minéralogie, la Botanique, et la Zoologie. Paris &  
Cherbourg, 1862.

8°: 100 p., map.

RARE. An essay on the natural history of the  
archipelago of the Marquesas Islands in the South  
Pacific, with emphasis on the geology, mineralogy,  
botany, and zoology of the area. Discovered by Captain  
Cook in 1780, they were colonized by France in 1842.  
The book was published as *Mém. Soc. Imp. Sci. Nat.*  
*Cherbourg*, 6 (1858).

REFERENCES: BMC: 2, 927.

**JARS, Antoine Gabriel.** (BORN: Lyon, France, 26  
January 1732; DIED: Clermont, France, 26 August  
1769) *French metallurgist & mineralogist.*

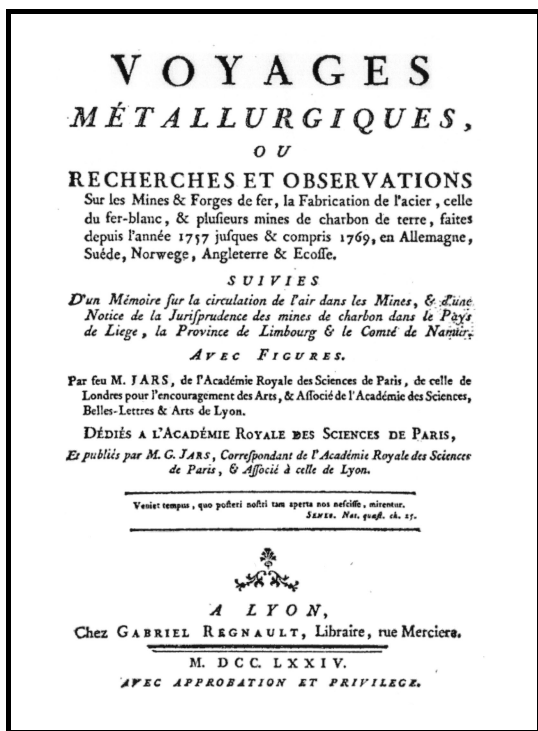
Jars was educated at school of Pont and Chausses,  
becoming a mining engineer. He prospected for coal  
in eastern France, and at the invitation of the French  
government visited Holland, Germany, Scandinavia in  
1766. In 1768, a year before his death, Jars was elected  
member of the Académie des Sciences de Paris. In 1775  
Jars developed process for refining copper which consumed  
less wood.

REFERENCES: ABF: I 539, 242-245. • DBA: I  
601, 432-437. • DSB: 7, 78. • Hirsching, *Historisch-  
literarisches Handbuch*, 1794-1815. • *ISIS*, 1913-65: 1, 643. •  
Jöcher, *Gelehrten-Lexikon, Supplement*. • *Nouvelle Biographie  
Générale* (Hoefer). • Poggendorff: 1, col. 1192. • WBI. •  
*World Who's Who in Science*: 874.

**2459. — French, 1774-81** [First edition].

Voyages | Métallurgiques, | Ou | Recherches  
Et Observations | Sur les Mines & Forges de  
fer, la Fabrication de l'acier, celle | du fer-blanc,  
& plusieurs mines de charbon de terre, faites |  
depuis l'année 1757 jusques & compris 1769, en  
Allemagne, | Suède, Norwege, Angleterre & Ecosse.  
| Suivies | D'un Mémoire sur la circulation de  
l'air dans les Mines, & d'une | Notice de la  
Jurisprudence des mines de charbon dans le Pays  
| de Liege, la Province de Limbourg & le Comté  
de Namier. | Avec Figures. | Par seu M. Jars, de  
l'Académie Royale des Sciences de Paris, de celle  
de | [...2 lines of titles and memberships...] | Dédiés  
a l'Académie Royale des Sciences de Paris, | Et  
publiés par M.G. Jars, Correspdant de l'Académie  
Royale des Sciences | de Paris, & Associé à celle  
de Lyon. | [rule] | [...2 lines of quotation...] | [rule]  
| [ornament] | A Lyon, | Chez Gabriel Regnault,





VOYAGE MÉTALLURGIQUES, 1774

Libraire, rue Merciere. | [double rule] | M. DCC.  
LXXIV. | Avec Approbation Et Privilege.

3 vols. and atlas. (Text) [VOL 1] 4°: [i]-xxxii, [1]-  
416 p. [VOL 2] 4°: [i]-xxviii, [1]-612 p. [VOL 3] 4°:  
[i]-viii, [1]-568 p. (Atlas) 2°: 52 engraved plates (some  
folding).

CONTENTS: [Vol 1] [i-ii], Half title page, "Voyages |  
Métallurgiques," verso blank.; [iii-iv], Title page, verso  
blank.; [v-vi], Dedication.; [vii]-xx, "Préface.," xxi-xxviii,  
"Eloge | De M. Jars.," xxix-xxxii, "Table | Des Matieres.,"  
[1]-416, Text.

[Vol 2] No copy examined.

[Vol 3] [i-ii], Title page, verso blank.; iii-viii, "Table  
| Des | Matieres | Du Tome Troisième.," [1]-548, Text.;  
549-568, "Explication | Des Figures."

RARE in complete copies. First appearance  
of this comprehensive and well illustrated treatise  
on theoretical and practical metallurgy, published  
posthumously by Gabriel's brother, M.G. Jars, who  
had accompanied him on his journey through Belgium,  
Holland, Norway, Sweden, Germany, England and  
Scotland. The French government commissioned  
Antoine Gabriel Jars to visit mines in these countries,  
studying their techniques and methods. In this way  
Jars observed the use of coke in melting iron, and  
he was the first French metallurgist to apply this  
technology in an experiment, melting copper with coke  
in 1769. At first his reports to the French government  
remained unpublished for fear that foreign governments  
would profit from this specialist knowledge. However  
in 1769 after his sudden death Jars's brother began

to publish the writings in this first French edition.  
"Ce livre très estimé, offre, non un itinéraire, mais  
divers mémoires sur les mines des pays visités par  
l'auteur: elles sont décrites avec beaucoup d'exactitude;  
Jars donne leur histoire, les réglemens et la forme  
de leur administration, le mode de leur exploitation  
..." (Quérard). The text gives descriptions of mines  
producing all kinds of metals, the manufacture of azure,  
white lead, zinc, minium, brass, sulfur, alum, salt,  
vitriol, bricks, pottery, tiles, coins, etc. The plates show  
accurate layouts and cross-sections of mines, furnaces,  
iron and steel works, shafts, mining equipment, plans,  
and some maps with mining veins indicated.

REFERENCES: BL: [457.b.9-11.]. • Brunet, G., *France  
Littéraire au XVe siècle*, Paris, 1865: 3, col. 516. • DSB: 7,  
78. • Hoefer, *Histoire de la Chimie*, 1866-9: p. 468-469. •  
Honeyman Sale: no. 1755. • Hoover Collection: no. 452.  
• Jackson, *Bird Etchings*, 1985. • Raoul Jagnaux., *Histoire  
de la chimie*. Paris, 1891: p. 242-244. • Koch, *Geschichte  
bergmännischen Schrifttums*, 1963: p. 223. • LKG: XIV 2\* &  
3. • NUC. • Partington, *History of Chemistry*, 1961-70: 3,  
101. • Quérard, *France Littéraire*, 1964: 4, p. 210. • Roller &  
Goodman, *Catalogue*, 1976: 2, 8. • Zeitlinger & Sothoran,  
*Bibliotheca Chemico*, 1921-52: suppl. 1, no. 6495.

2460. German transl., 1777-85: Gabriel Jars | [...one line of  
titles...] | Metallurgische Reisen | zur | Untersuchung und  
Beobachtung | der vornehmsten | Eisen=, Stahl=, Blech=  
und Steinkohlen=Werke in | Deutschland, Schweden,  
Norwegen, England, und | Schottland, vom Jahr 1757 bis  
1769. | [ornament] | Aus dem Französischen übersetzt und  
mit Anmerkungen begleitet | von | D. Carl Abraham  
Gerhard | [...one line of titles...] [rule] | Erster Band.  
| [double rule] | Berlin, 1777 | bey Christian Friedrich  
Himburg.

4 vols. [VOL 1] 8°: [32], [1]-384 p. [VOL 2] 8°: [2],  
385-812 p. [VOL 3] 8°: [14], [1]-484 p. [VOL 4] 8°: [2],  
485-1040 p., 31 folded engraved plates and 2 folded tables.

RARE. German translation by CARL ABRAHAM  
GERHARD of *Voyage Métallurgiques* (Paris, 1774-81).

REFERENCES: BL: [1255.e.1-4.]. • Ferchl: p. 258. •  
LKG: XIV 4a.

**JASCHE, Christoph Friedrich.** (BORN: Ilsenburg,  
Germany, 1781; DIED: Ilsenburg, Germany, 1871)  
*German mineralogist.*

Jasche was director of the Wernigerode Mining and  
Metallurgical works at Ilsenburg in the Harz Mountains.

REFERENCES: ADB: 13, 727-8. • DBA: I 602, 2-4; II  
651, 204. • Hamberger & Meusel, *Gelehrte Teutschland*,  
1796-1834. • Poggendorff: 1, col. 1192. • WBI.

**2461. — German, 1811.**

Das Wissenswürdigste aus der Gebirgskunde.  
Büchenberg, 1811.

8°: [6], 69 p. VERY RARE.

REFERENCES: BL: [no copy listed]. • LKG: XIII 253\*.

**2462. — German, 1817.**

Kleine mineralogische Schriften vermischten In-  
halts, herausgegeben von C.F. Jasche. Band I. Son-  
dershausen, 1817.

8°: xii, 283 p. No more published. RARE.

REFERENCES: BL: [725.b.37.]. • BMC: 2, 928. • Dana's  
7th (Bibliography): 74.

**2463. — German, 1838.**

Mineralogische Studien von Christoph Friedrich Jasche. Quedlinburg & Leipzig, G. Basse, 1838.

8°: iv, 208 p., 3 plates (one colored). VERY SCARCE.

REFERENCES: BL: [726.g.25.]. • BMC: 2, 928.

**2464. — German, 1852.**

Übersicht der in der Grafschaft Wernigerode aufgefundenen mineralogisch einfachen Fossilien, nebst Angabe der Fundorte Vortrag im wissenschaftlichen Vereine, gehalten am 7. April 1852 von C. F. Jasche. Wernigerode, 1852.

8°: 13 p. VERY SCARCE.

**JASTRZĘBOWSKI, Wojciech Bogumił.** (BORN: 1799; DIED: 1882) *Polish naturalist.*

Jastrzębowski was a professor of zoology, botany and mineralogy at the University of Wilno.

REFERENCES: Orgelbranda, *Encyklopedia Powszechna*, 1898-1912: 7, 459.

**2465. — Polish, 1851.**

Mineralogia czyli nauka o kamieniach, zastosowana do potrzeb ogólnych. Warszawa, 1851.

8°: 14, xvi, 418, 2 p.

RARE. Published as the third part of the series, *Historja naturalna zastosowana do potrzeb życia praktycznego i do rzeczy krajowych*. It is a general textbook of mineralogy written for the Polish readership.

REFERENCES: *Bibl. Warsz.* 1, 174-76. • Fleszarowa, *Bibliografia Geologiczna Polski*, 1966: no. 1252. • Koziorowski, *Materiały do Polskiej Mineralogii*, 1925. • Morozewicz, *Podręcznik Mineralogii*, 1900: p. xxviii-xxix. • NUC: [no copy listed].

**JAUSSIN, Louis-Armand.** (BORN: ?; DIED: Paris, France, 25 March 1767) *French apothecary.*

Jaussin was an apothecary and major attached with the French army. He was stationed on the Island of Corsica from 1738 to 1741.

REFERENCES: ABF: I 540, 325-328. • Le Moyne, Nicolas Toussaint., *Les siècles littéraires de la France*. Paris, 1800-3. 4 vols. [Reprinted, Genève, Slatkine, 1971.]. • LKG: 292. • *Nouvelle Biographie Générale* (Hoefer). • Poggendorff: 1, col. 1193. • WBI.

**2466. — French, 1758.**

Memoires Historiques, Militaires, et Politiques, sur les Principaux Evenemens Arrivés dans l'Isle et Royaume de Corse depuis le Commencement de l'Année 1738 jusques à la fin de l'Année 1741, avec l'Histoire Naturelle de ce pais-la et Diverses Remarques Curieuses Touchant l'Origine des Peuples qui l'Habitent. Lausanne, Bousquet, 1758

2 vols. [VOL 1: 1758] 8°: xxx, 591 p., one map. [VOL 2: 1759] 8°: 604 p.

VERY RARE. Corsica is an island in the Mediterranean that is governed by France. These memoirs give much information on their history, political structure, with special attention to the natural

history of the land with emphasis on the mineralogy, geology, and botany.

REFERENCES: BL: [980.c.21.]. • LKG: XIV 545.

**JEHLIČKA, Pavla.** (BORN: Benešov, Czech Republic, 1826; DIED: Plzeň, Czech Republic, 1883?) *Czech writer & school teacher.*

Jehlička was educated in Prague. He entered into the teaching profession, and taught in a number of Czech towns, including Jindřichův, Hradec, Cheb and Prague. Later in his career he became inspector of schools for several different districts. He authored books in several fields including poetry, fiction, books for children and natural history, as well as translations into the Czech language of several works.

REFERENCES: Personal communication [Petr Sztacho, 2002].

**2467. — Czech, 1863.**

Nauka o Nerostech. Návod k snadnějšímu učení se počátkům nerostopisu a geologie. Pro školy sepsal Pavel Jehlička, učitel na vyšším gymnasiu v Chebu. Se 60 vyobrazeními. V Praze Nákladem kněhupectví: I.L. Korber, 1863.

8°: 167 p., 60 illus. (mostly line drawings).

RARE. A beautiful, illustrated book about geology and mineralogy written in the cheerful, old Czech language. It is divided into two sections. The first (pp. 1-73) focuses on geology, while the second (pp. 74-167) describes aspects of mineralogy and European mineral resources. In his descriptive mineralogy, the author uses a classification scheme probably derived from some German system, which groups the minerals into: 1. gaseous minerals, 2. liquid minerals, 3. soluble minerals, 4. crude minerals (German: *erdige Mineralien*), 5. metallic minerals and 6. flammable minerals. He also provides good descriptions of several European mineral deposits.

REFERENCES: Personal communication: [Petr Sztacho, 2002].

**2468. — Czech, 1875.**

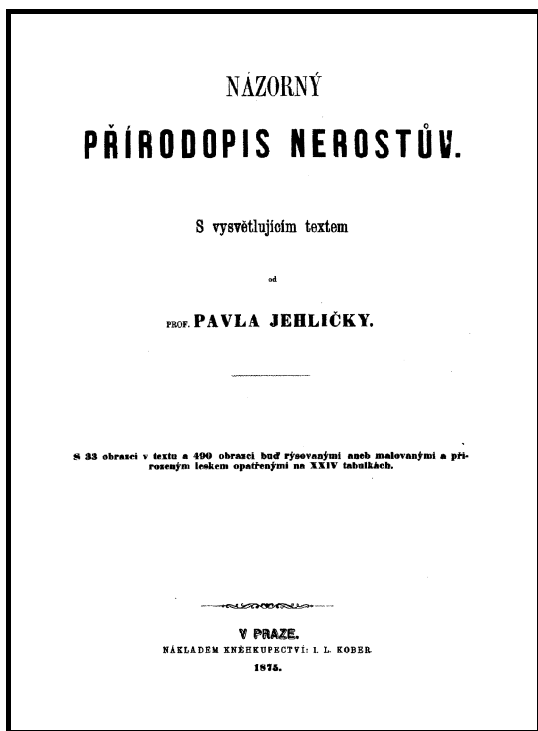
Názorný | Přírodopis Nerostův. | S vysvětlujícím textem | od | Prof. Pavla Jehličky. | [wavy rule] | s 33 obrázky v textu a 490 obrázky bud | rýsovanými aneb malovanými a při- | rozeným leskem opatřenými na XXIV tabulkách. | [ornate rule] | V Praze. | Nákladem Kněhupectví: I.L. Kober. | 1875.

[SERIES TITLE PAGE READS:]

Světlozor | Pro Dům A Školu. | [wavy rule] | Obrazy K Názornému Vyučování S Textem | Od | Prof. Pavla Jehličky. | Díl VI. | Názorný Přírodopis Nerostův. | [ornate rule] | V Praze. | Nákladem Kněhupectví: I.L. Kober. | 1875.

2°:  $\pi^2$  1-152; 32ℓ.; [4], [1]-55, [5] p., 24 chromolithographic plates (numbered A-B, I-XXII). PAGE SIZE: 320 x 208 mm.

CONTENTS: [2 pgs], Blank verso series title page.; [2 pgs], Title page, verso "Károdni kněhtiskárna: I.L. Kober v Praze."; [1]-55, Text.; [1 pg], Blank.; [2 pgs],



NÁZORNÝ PŘÍRODOPIS NEROSTŮV, 1875

"Rejstřík.;" [1 pg], "Přehled obsahu.;" [1 pg], Blank.; [At end], plates.

RARE. The beautiful chromolithographic plates are the same as those used in the *Mineral Kingdom* series authored by Kurr and Kenngott in the last half of the 19th century. The text by Jehlička follows closely the layout of the original work and should be considered a translation, although there appears to be no indication of this in the text.

#### JENA, Germany. Societät für die gesammte Mineralogie.

*Founded 1797.* This is the first scientific society devoted exclusively to mineralogy. It was established through the efforts of Johann Georg Lenz [q.v.], a professor at the city's University. Lenz together with 18 other founding members elected Count Domokos Teleki [1773–1798], an amateur mineral collector as chairman, and this set the tone of cooperation between scientists and collectors within the organization.

By 1801, the *Societät für die gesamt Mineralogie zu Jena* had a membership of 595 members, including many enthusiastic amateurs and professional mineralogists and students throughout Europe. Many of the best known mineralogical authors of the time held membership. Unfortunately, the complete roster of names as not survived, only some interesting statistics. Of the membership, a high percentage were probably students since 126 lived in Jena and 73 others were Hungarian in nationality.

REFERENCES: Wilson, *History of Mineral Collecting*, 1994.

#### 2469. — German, 1990.

Die Sozietät | für die gesamte Mineralogie | zu

Jena unter Goethe | und Johann Georg Lenz | von | Johanna Salomon | [Initials "B V" contained in an ellipse] | 1990 | Böhlau Verlag Köln Wien.

8°: [i]-xiv, [1]-232 p., biblio. PAGE SIZE: 228 x 153 mm.

CONTENTS: [i-ii], Series title page, "Mitteldeutsche Forschungen | Herausgegeben von | Reinhold Olesch, Roderich Schmidt, Ludwig Erich Schmitt | Band 98," verso blank.; [iii-iv], Title page, verso copyright information.; [v], "Inhalt.;" [vi], Blank.; [vii], "Vorbemerkung.;"—signed Roderich Schmidt, August 1990.; [viii], Blank.; [ix]-xi, "Vorwort.;"—dated 1 June 1986.; [xii], Blank.; [xiii]-xiv, "Abkürzungen und Zeichen.;" [1]-117, Text.; [118], Blank.; [119], "Anhang.;" [120], Blank.; 121-145, Text of the Anhang.; 146, Blank.; [147]-217, "Anmerkungen.;" [218]-225, "Quellenverzeichnis.;" [226]-232, "Literaturverzeichnis.;"

VERY SCARCE. Authored by Johanna Salomon [1920-1989] this thoroughly researched volume is the only modern history of the first mineralogical society. The author who died before seeing his book in print has written a concise and accurate statement of the *Sozietät für die gesamte Mineralogie's* role in mineralogy and German science in general. Using the previously overlooked archives of the University of Jena as well as many other sources a vivid biography is crafted of this Society from its founding in 1796 until its demise in 1830. Included within the 1170 notes are many biographical references to the Society's members.

The contents may be described as: I. History of the Society from 1796 to 1830. II. Biography of the founder Johann Georg Lenz. III. Goethe as president. IV. Dominik Teleki von Szék and members from Hungary and Transylvania.

Historische Nachricht von der Societät ... Von J.F.H. Schwabe (Jena, 1801).

See: Schwabe, Johann Friedrich Heinrich.

#### 2470. — German, 1802 [Periodical].

Annalen der Societät für die gesammte Mineralogie. Herausgegeben von Johann Gottlob Lenz und Johann Friedrich Heinrich Schwabe ... Jena & Leipzig, 1802.

RARE. Edited by JOHANN GEORG LENZ and JOHANN FRIEDRICH HEINRICH SCHWABE this is the first volume of the published proceedings of the *Societät für die gesammte Mineralogie* in Jena, Germany, which continued for some years under different titles [see entries below].

REFERENCES: BL. • BMC: 2, 930. • GV (1700-1910): 87, 56. • Partsch, *Katalog der Bibliothek*, 1851: no. 2742.

#### 2471. — German, 1804-6 [Periodical].

Schriften | der | Herzoglichen Societät | für die | gesammte Mineralogie | zu | Jena. | [tapered rule] | Herausgegeben | von | Johann Georg Lenz, | [...12 lines of titles and memberships...] | [rule] | Erster Band. | Mit drey Kupfertafeln. | [tapered rule] | Jena 1804. | Im Verlag des Hofbuchdrucker Göpferdts.

3 vols. [VOL 1: 1804] 8°: [VOL 2: 1805] 8°: [VOL

3: 1806] 8°: RARE.

REFERENCES: BMC: 2, 930. • GV (1700-1910): 87, 56.  
• Partsch, *Katalog der Bibliothek*, 1851: no. 2742.

**2472. — German, 1806-25** [Periodical].

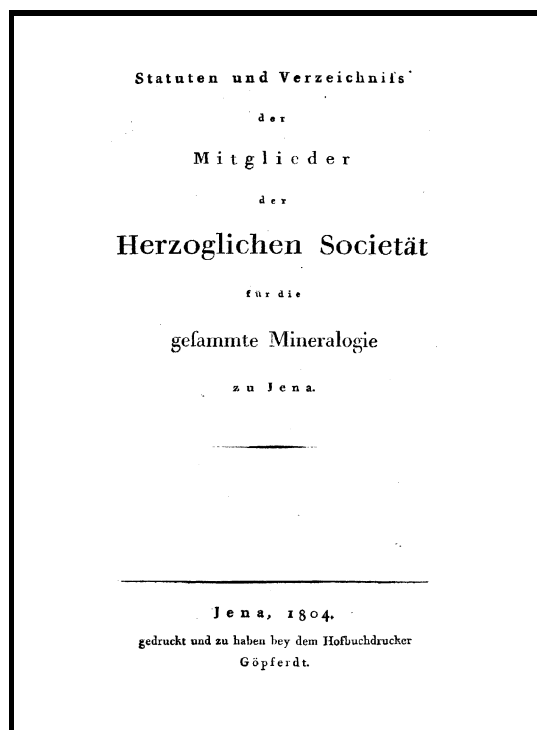
Neue Schriften | der | Grossherzoglich S. Societät  
| für die | gesammte Mineralogie in Jena. |  
[rule] | Herausgegeben | von | D. Johann Georg  
Lenz, | Bergrath, Professor, und Director der  
mineralogischen | Societät in Jena, | und |  
D. Johann Friedrich Heinrich Schwabe, | Superint.  
und Oberpfarrer in Neustadt a.d.O. | [rule] | Erster  
Band. | Mit einem Portrait und einer Charte. |  
[tapered rule] | Neustadt a.d.O. 1823. | Gedruckt  
und verlegt von Johann Karl Gottfried Wagner.

2 vols. [VOL 1: 1823] 8°: [i]-xvi, [1]-356 p.,  
frontispiece (portrait of J.G. Lenz). [VOL 2: 1825] 8°:  
[i]-x, [1]-324 p., 2 plates (folding, maps). PAGE SIZE:  
202 x 122 mm. RARE.

CONTENTS: [Vol 1] [i-ii], Title page, verso blank.;  
[iii]-viii, "Widmung."; [ix]-xiv, "Vorrede."—signed Lenz &  
Schwabe, November 1822.; [xv]-xvi, "Inhaltsanzeige."; [1]-  
356, Text.

[Vol 2] [i-ii], Half title page, verso blank.; [iii]-iv,  
Title page, verso blank.; [v]-viii, "Vorrede."—signed Lenz  
& Schwabe, 4 January 1825.; [ix]-x, "Inhaltsanzeige."; [1]-  
324, Text.;

REFERENCES: BMC: 2, 930. • GV (1700-1910): 87, 56.  
• Partsch, *Katalog der Bibliothek*, 1851: no. 2742.



STATUTEN UND VERZEICHNISS DER MITGLIEDER, 1804

**2473. — German, 1804.**

Statuten und Verzeichniß | der | Mitglieder |  
der | Herzoglichen Societät | für die | gesammte  
Mineralogie | zu Jena. | [tapered rule] | [tapered  
rule] | Jena, 1804. | gedruckt und zu haben bey  
dem Hofbuchdrucker | Göpferdt.

8°:  $\pi^1$  A-C<sup>8</sup>; 25 $\ell$ .; [2], [1]-48 p. PAGE SIZE: 178  
x 104 mm.

CONTENTS: [2 pgs], Title page, verso blank.; [1]-6,  
"Statuten | der | Herzogl. | Societät | für die |  
gesammte Mineralogie zu Jena."—signed Georg Lenz, 30  
January 1804.; 7-48, "Verzeichniß der Mitglieder."

VERY RARE. Separate edition which simultane-  
ously appeared in the *Annalen der Herzoglichen Soci-  
etät für die gefammte Mineralogie zu Jena*. The first  
part provides a description of the 10 statues governing  
the Society, while the second more lengthy portion gives  
a membership list that is like a roll-call of the greatest  
mineralogists of Europe and Britain.

REFERENCES: NUC: [no copy listed].

**JENTSCH, Casper Gotthelf.**

**2474. — Latin, 1706** [Dissertation].

Dissertatio Physica-Historica | De | Gemmis,  
| Qvam | Sub Auspiciis Divinis, | Indultu  
Ampüßimi Collegii Philosophici, | in celeberrima  
Plissina | ad d II. Jun. A.O.R. MDCCVI.  
| H.L.Q.C. | Placido Eruditorum Examini |  
publié subject | Praeses | M. Caspar Gotthold  
Jentsch/ | Budissa Lus. | Respondente | Simone  
Bockelmann/Hamburg. | [rule] | Lipsiae. Literis  
Viduae Brandeburgeri.

4°: A-C<sup>4</sup>; 12 $\ell$ .; [1]-24 p. PAGE SIZE: 188 x 153  
mm.

CONTENTS: [1-2], Title page, verso blank.; [3],  
Preface.; 4-24, Text.

RARE. Dissertation presented on 2 June 1706  
for which Jentsch was the praesidium and Simone  
Bockelmann of Hamburg was respondent. The text  
discusses various qualities of several gemstones.

REFERENCES: LKG: XVI 223. • NUC. • Sinkankas,  
*Gemology Bibliography*, 1993: no. 3207. • USGS Library  
Catalog.

**JENTZSCH, Carl Alfred.** (BORN: Dresden, Germany,  
29 March 1850; DIED: Berlin, Germany, 1925) *German  
geologist.*

Jentzsch recieved his Ph.D. from the University of  
Leipzig in 1872. He joined the Prussian Geological Survey  
in 1875, and became a professor of geology at the University  
of Königsberg and director of the provincial museum in  
1889.

REFERENCES: DBA: I 605, 82-83. • WBI.

**2475. — German, 1874** [Bibliography].

Die geologische und mineralogische Literatur des  
Königreiches Sachsen. Leipzig, 1874.

8°: 132 p.

RARE. Bibliography of the geological and  
mienralogical literature of the kingdom of Saxony,

## JEWESBURY

including information on the minerals found in the region.

REFERENCES: BMC: 2, 932. • NUC. • Spencer, *Catalogue of Topographical Mineralogies*, 1948: [p. 308].

### 2476. — German, 1892 [Collection catalog].

Führer | durch die | Geologischen Sammlungen  
| des | Provinzialmuseums | der | Physikalisch-  
Oekonomischen Gesellschaft zu Königsberg |  
bearbeitet vom Direktor | Prof.Dr. Alfred Jentsch.  
| [wavy rule] | Mit 75 Textabbildungen und zwei  
Tabellen | enthaltend eine | Uebersicht der  
Geologie Ost- und Westpreussens. | [vignette] |  
Königsberg in Pr. | In Kommission bei Wilh. Koch.  
| 1892.

8°: [1]-106 p., 75 illus., 2 folding tables. PAGE  
SIZE: 224 x 146 mm.

CONTENTS: [1-2], Title page, verso blank.; [3-4],  
Preface.; [5]-106, Text.; [At end], Tables.

RARE. The Provincial Museum in Königsberg, Prussia, was largely destroyed during World War II, but before its demise it held a large geological section featuring fossils, stones, minerals, and rocks found in Prussia and adjacent lands. This is the only description of its contents before its destruction. Incidental information on the mineral resources of the Prussian state are also contained in its specimen descriptions. The folding tables show a chronological summary of the geological formations, their nature, thickness, and fossils found of East and West Prussia.

REFERENCES: NUC. • Sinkankas, *Gemology Bibliography*, 1993: no. 3208. • USGS Library Catalog.

### JERVIS, William Paget. *English mineralogist*.

REFERENCES: BBA: I 615, 309-310. • WBI.

### 2477. — Italian, 1868.

The Mineral Resources | Of | Central Italy: |  
Including | Geological, Historical, And Commerical  
Notices | Of The | Mines And Marble Quarries; |  
With A Supplement | Containing | An Account Of  
The Mineral Springs, | Accompanied By The Most  
Reliable Analyses. | By W.P. Jervis, | [...3 lines of  
titles and memberships...] | [rule] | Illustrated With  
Original Engravings. | [rule] | London: | Edward  
Stanford, 6, Charing-Cross. | 1868. | [rule] | Price  
Five Shillings.

8°: [6], [1]-132 p., 111 tables.

CONTENTS: [2 pgs], Half title page, "Mineral Resources  
| Of | Central Italy," verso blank.; [2 pgs], Title page, verso  
blank.; [1 pg], "Preface.;" [1 pg], "Contents.;" [1]-88, Text.;  
[89]-90, "Index.;" [91]-128, "Universal Exhibition, Paris,  
1867, | Mineral Resources Of Central Italy | ..."; [129]-132,  
"Explanation Of The Abbreviations Employed."

VERY SCARCE. The book covers the mineral resources of Central Italy, including descriptions of the marble, alabaster, serpentine, boracic acid, rock salt, iron, copper, lead, silver, mercury, antimony, manganese, other metalliferous minerals, and mineral fuel and oil.

REFERENCES: BMC: 2, 932. • NUC. • USGS Library Catalog.

### JEWESBURY, Frederick Noel.

### 2478. — English, 1873.

Mineralogical Tables, Describing the Physical and Chemical Properties of all the Important Minerals. London, 1873.

8°: 95 p. Forming one of Murby's "Science and Art Department" Series of Textbooks. VERY SCARCE.

REFERENCES: BMC: 2, 933. • NUC.

**JIRASEK, Johann.** (BORN: Libochowitz, Bohemia, 26 July 1754; DIED: Salzburg, Austria, 6 July 1797) *Austrian/Czech mineralogist*.

REFERENCES: DBA: I 606, 237-241. • Hamberger & Meusel, *Gelehrte Teutschland*, 1796-1834. • Meusel, *Verstorbenen Deutschen Schriftsteller*, 1802-16. • Poggendorff: 1, col. 1195. • WBI. • Wrany, *Pflege der Mineralogie in Böhmen*, 1898. • Wurzbach, *Biographisches Lexikon Österreich*, 1856-91.

### 2479. — German, 1791.

Beobachtungen auf Reisen nach dem Riesengebirge, von J. Jirasek, T. Haenke, Abbé Grube und F. Gerstner, &c. Dresden, In der Waltherischen Hofbuchhandlung, 1791.

4°: xviii, 309 p., one plate, one map.

RARE. This collaborative effort contains observations on the mineralogy and botany made during a trip through the Riesengebirge Mountains, located on the border between Poland and the Czech Republic. Tadeáš Hánke [1761-1817] authored the botanical section while Jirasek wrote the mineralogical section, which has the title *Mineralogische und botanische Bemerkungen auf einer Reise nach sem Riesengebirge*.

REFERENCES: BL: [10215.d.]. • BMC: 2, 934. • Hoover Collection: no. 215. • LKG: XIV 77 & XIV 85. • Pritzel, *Thesaurus Literaturæ Botanicae*, 1871-3: no. 4426.

**JOANNES DE SANCTO GEMINIANO.** (BORN: San Gimignano, Italy, 1270?; DIED: Siena, Italy?, 1323) *Italian Dominican, preacher & encyclopaedist*.

Giovanni de Goro (or Gorini), Giovanni Coppo (or de' Coppi), Joannes Gorinus de Sancto Geminiano or Giovanni da San Gimignano assumed the Dominican habit in Siena, Italy. He was middle-aged by the beginning of the 14th century and by 1314 he was famous throughout Italy as a popular lecturer. He authored many ecclesiastical works, including sermons, orations and commentaries on the Gospels, but his lasting monument is a large encyclopedia intended for use by the Dominican preachers. He is also credited with documenting the legend of his home town's patron saint, Santa Fina (i.e., Serafina).

REFERENCES: Mansfield, M., *The legend of the Holy Fina, Virgin of Santo Gimignano, translated from The Trecento Italian of Fra Giovanni Di Coppo; with introduction and notes by M. Mansfield*, London, Chatto and Windus; New York, Duffield & Co., 1908, 174 p. • Poggendorff: 1, cols. 1196-7. • Sarton, *Introduction*, 1928-52: 2 (1), 920-1.

### 2480. — Latin, 1477 [First edition].

Summa de exemplis ac similitudinibus rerum. Deventer: Richardus Pafræt, [1477].

2°: A-B<sup>8</sup> a-y<sup>10</sup> z<sup>6</sup> aa-bb<sup>8</sup> 2a-2z<sup>10</sup> 2aa-2bb<sup>10</sup> 2cc-2dd<sup>8</sup>; 524*l*.

EXTREMELY RARE. A large encyclopedia of natural, legal and moral knowledge to provide as many concrete illustrations as possible in support of medieval sermons. The original manuscript to this work was completed by 1313, if not earlier, and first printed in this edition by Richardus Pafraet [see note below].

Joannes de Sancto Geminiano divides the text into 10 books, each of which is in-turn divided into various chapters. The commentary is devoted to setting forth resemblances, chiefly those of material things, to things of the mind and spirit. Typical of his age, the author sometimes indulges in what are now viewed as far-fetched examples, but would have been standard views of the educated class of the period. Although not explicitly stated, the ten books probably relate to the ten divisions in the Ptolemaic heavens. The ten books provide numerous examples or "Resemblances" to each of the following subjects in succession: (1) De Cœlo et Elementis, or those to be found in the "Heavens and the Elements," (2) De Metallis et Lapidibus, in "Metals and Stones," (3) De Vegetabilibus et Plantis, in "Vegetables and Plants," (4) De Natatilibus et Volatilibus, in "Fishes and Birds," (5) De Animalibus Terrestribus, in "Terrestrial Animals," (6) De Homine et Membris eius, in "Man and his Members," (7) De Visionibus et Somniis, in "Dreams and Visions," (8) De Canonibus et Legibus, in "Canons and Laws," (9) De Artificibus et Rebus Artificialibus, in "Arts and Artificial Things," (10) De Acitbus et Moribus Humanis, in the "Actions and Customs of Men."

Book II covers the metals and stones. Descriptions within it say that sapphire is the act of divine contemplation, while asbestos resembles hell fire, and bitumen bears a resemblance to charity. Some of the comparisons are strange and startling to say the least. For example, the comparison between asbestos and hell fire are based upon a misconception of this mineral. The name, "asbestos," is derived from the Greek (*asbestoz*) and means 'unquenchable,' an allusion to the fact that even though it can be reduced to a fibrous condition that resembles the fibers of cotton or wool, it cannot be destroyed by fire. This property gave rise to the myth that it was a substance which when heated to the point of combustion, it would burn forever, and could never be extinguished. Hence, the resemblance to the fire of hell is derived.

Numerous editions of this book appeared.

**Richardus Pafraet.** (BORN: ; DIED: ) *printer.*

[ BIOGRAPHY NEEDED ]

REFERENCES: Adams, *Birth and Development*, 1938: 73-4. • BMC XV: 9, 45 [IB 47525]. • Goff: J-427. • Hoover Collection: no. 456. • Klebs, *Incunabula Scientifica*, 1938: no. 562.1. • Sarton, *Introduction*, 1928-52: 2 (1), 920-1. (Pafraet)

**2481. 1485:** Summa de exemplis et similitudinibus rerum. Cologne, Johann Koelhoff, c1485.

2°: 928 p. VERY RARE.

REFERENCES: Hain, *Repertorium Bibliographicum*, 1826-38: no. \*7542. • Klebs, *Incunabula Scientifica*, 1938: no. 562.2.

**2482. 1497:** Summa de exemplis ac similitudinibus rerum.

Nouiter impressa ... COLOPHON: Venice: Per Joane [et] Gregorium de Gregorijs fratres, 1497 die 10 Aprilis.

8°: 2A<sup>12</sup> a-z<sup>8</sup> 1<sup>8</sup> 2<sup>8</sup> X<sup>8</sup> A<sup>14</sup> B-X<sup>8</sup> Y<sup>10</sup>; [12], 392ℓ. Double columns. Woodcut Initials, printer's device (full page) on the verso of leaf 382. VERY RARE.

REFERENCES: BMC XV: 5, 350 [IA 21131]. • Goff: J-429. • Hain, *Repertorium Bibliographicum*, 1826-38: no. 7545\*. • Hoover Collection: no. 457. • Klebs, *Incunabula Scientifica*, 1938: no. 562.3.

**2483. 1499:** De exemplis et similitudinibus rerum. [Basel:] Johann Froben und Johann Petri, 25 Jan. 1499.

4°: 342ℓ. This edition was edited by Sebastian Brant. VERY RARE.

**Sebastian Brant.** (BORN: Strassburg, Germany, 1458; DIED: Strassburg, Germany, 10 May 1521) *German humanist & satirist.* Brant studied at Basel and took the degree of doctor of laws in 1489. He was a longtime professor of jurisprudence there. He retired to Strassburg, where he was made syndic of the town. Today, he is remembered for his famous satire, *Das Narrenschiff* [English: Ship of Fools] (1494), which describes a ship laden with fools and steered by fools to the fools' paradise of Narragenia.

REFERENCES: Bain, D.C., "Some notes on the printing of the Summa de Exemplis, 1499," *The Library*, 21 (1940), 192-8. [Typographical study of this particular edition]. • BMC XV: 3, 792 [IA.37898.]. • Hain, *Repertorium Bibliographicum*, 1826-38: no. 7546\*. • Klebs, *Incunabula Scientifica*, 1938: no. 562.4. • Wellcome Catalog (Books): 1, no. 5751. (Brant) ADB. • DBA: I 136, 191-204; II 167, 309-331. • *Encyclopaedia Britannica*, 11th edition: 4, 431. • Jöcher, *Gelehrten-Lexikon*, 1750-51. • Nagler, *Neues allgemeines Künstler-Lexikon*, 1835-52. • NDB. • WBI. • Zischka, *Allgemeines Gelehrten-Lexikon*, 1961: 103.

**2484. 1499:** Summa de exemplis ac similitudinibus rerum ... Venice, 1499.

8°: 2A<sup>10</sup> a-z<sup>8</sup> 1<sup>8</sup> 2<sup>8</sup> X<sup>8</sup> A-X<sup>8</sup> Y<sup>10</sup>. Leaves 47, 56, 135, 137, 143, 183, 184, and 383-386 misnumbered 48, 59, 136, 134, 134, 184, 183, 385-387, and 387 respectively. Includes index. Woodcuts: initials; printer's device (full-page) on verso of last leaf. VERY RARE.

REFERENCES: BMC XV: 5, 351 [I.A.21146.]. • Hain, *Repertorium Bibliographicum*, 1826-38: no. 7547\*. • Klebs, *Incunabula Scientifica*, 1938: no. 562.5.

**2485. 1576:** Summa de exemplis et rerum similitudinibus locupletissima verbi dei concionatoribus cunctisque literarum studiosis maximo usui futura. Venetiis, Ex Officina Damiani Zenari, 1576.

4°: 388ℓ. VERY RARE.

REFERENCES: BL: [1568/2841.].

**2486. 1583:** Summa de exemplis ac similitudinibus rerum ... Antwerp, 1583.

8°: RARE.

**2487. 1584:** Summa De Exemplis, Et Rerum Similitudinibus Locupletissima Verbi Dei Concionatoribus cunctisque literarum studiosis maximo usui futura. Fr. Ioanne a s. Geminiano ... auctore. Nunc demum post omnes alias aeditiones summa industria & diligentia ab innumeris pene erroribus castigata, & aucta. Adiectus est primum Index certissimus optimam quamque ac desideratam materiam ordine alphabetico ostentans ... Venice, Domenico Farri, 1584.

4°: a<sup>8</sup> b<sup>4</sup> A-2N<sup>4</sup> (2N<sup>4</sup> blank.); 307ℓ.; 566, [2] p. RARE.

**2488. 1585:** Summa de exemplis ac similitudinibus rerum ... Lyon, 1585.

8°: RARE.

**2489. 1597:** Summa de exemplis et rerum similitudinibus locupletissima ... F. Johanne à S. Geminiano ordinis praedicatorum auctore ; Nunc demum ... à Aegidio Gravatio Rocchensi Eremitano ab ... erroribus castigata & aucta ... Antverpiae, Beller, 1597.

8°: 519 p. Edited by Aegidio Gravatio. RARE.

## JOCKUSCH

**2490. 1609:** Summa de exemplis et rerum similitudinibus locupletissima, verbi Dei concionatoribus... maximo usui futura, F. Joanne a S. Geminiano... auctore. Nunc demum... a magistro Aegidio Gravatio... castigata et aucta... Antverpiae, Sumpt. viduae et haeredum P. Belleri, 1609

8°: 519 $\ell$ . RARE.

**2491. 1615:** Summa de exemplis et rerum similitudinibus ... Nunc demum ... à Magistro Aegidio Gravatio ... ab ... erroribus castigata & aucta. Adjectus est ... index certissimus ... Antuerpiae, sumptibus Petri & Ioannis Belleri; excudebat Andreas Bacx, 1615.

8°: 516 $\ell$ . Edited by Egidio Gravazzi. RARE.

REFERENCES: BL: [1568/2614].

**2492. 1629:** Summa de exemplis et rerum similitudinibus locupletissima... F. Joanne a S. Geminiano... auctore, nunc demum post omnes alias editiones diligenti cura a magistro Aegidio Gravatio... castigata et aucta ... Antverpiae, Sumptibus J. Belleri et P. viduae, 1629.

8°: 516 $\ell$ . Edited by Egidio Gravatio. RARE.

**2493. 1630:** Summa de exemplis et rerum similitudinibus locupletissima: verbi Dei concionatoribus, cunctisque literarum studiosis maximo vsui futura. Johannes a Sancto Geminiano ; Nunc ... diligenti cura aucta a Magistro D. Aegidio Gravatio. Antuerpiae, Apud Ioannem Bellerum, 1630.

8°: 516, [16] $\ell$ . Edited by Egidio Gravatio. RARE.

**2494. 1664:** Summa de exemplis ac similitudinibus rerum ... Frankfurt, 1664.

8°: RARE.

**2495. 1665:** Universum Praedicabile, Sive Summa R.P.F. Joannis De S. Geminiano, Ordinis Praedicatorum, Sacrae Theologiae Doctoris Clarissimi, De Exemplis & Rerum Similitudinibus locupletissima In qua, quicquid a Deo patratum fuit in opere Creationis Mundi universi, Concionibus quam clarissime adaptatum invenies ; Non solum Verbi Dei Praedicatoribus, verum etiam omnibus studiorum amatoribus perquam utilis & necessaria ; Cum adiunctis Sacrae Scripturae, SS. Patrum, aliorumque tum Doctorum, tum Philosophorum Allegationibus, & Indice triplici ... Coloniae Agrippinae, Cholinus, 1665.

4°: [20], 496 p.,  $\ell$ . 497-552, 545\*-548\*, 549+-552+, p. 553-816, [24] p. RARE.

REFERENCES: VD17: 1:083845D & 547:665387H.

**2496. 1670:** Universum Praedicabile, Sive Summa R.P.F. Joannis De S. Geminiano Ordinis Praedicatorum, Sacrae Theologiae Doctoris Clarissimi, De Exemplis & Rerum Similitudinibus locupletissima : In qua, quicquid a Deo patratum fuit in opere Creationis Mundi universi, Concionibus quam clarissime adaptatum invenies ; Non solum Verbi Dei Praedicatoribus, verum etiam omnibus studiorum amatoribus perquam utilis & necessaria ; Cum adiunctis Sacrae Scripturae, SS. Patrum, aliorumque tum Doctorum, tum Philosophorum Allegationibus, & Indice triplici ... Coloniae Agrippinae, Cholinus, 1670.

4°: [24], 496 p.,  $\ell$ . 497-552, 545\*-548\*, 549+-552+, p. 553-816, [24] p. RARE.

REFERENCES: VD17: 1:074782C.

## JOANNIS, P.

### 2497. — German, 1836.

Untersuchungen von den Stein- und Staub Niederschlägen und den damit verwandten Meteoriten. Eine Inauguralschrift, vorgelegt der philosophischen Fakultät der Ludwig-Maximilians-Universität zu München. München, Georg Franz, 1836.

8°: 100 p.

RARE. An investigation on meteorites, and the analysis of the same. It was written as an Inaugural

Dissertation submitted to the philosophical faculty of the Ludwig Maximilian University in Munich.

REFERENCES: BL: • Brown, *Bibliography of Meteorites*, 1953. • *Katalog Bergakademie Freiberg*, 1879: p. 333 [VII. 622.]. • NUC.

## JOCKUSCH, Johann.

### 2498. — German, 1730.

Versuch zur Natur-Historie der Grafschaft Mannesfeld, welche zu entwerffen und herauszugeben wilens ist J.J. Eissleben, [1730.]

4°: 19 p.

RARE. Attempt to create a natural history of the region of Mannsfeld, Germany.

REFERENCES: BL: [953.f.6.]. • Dryander, *Catalogus Banks*, 1796-1800: 4, p. 57. • LKG: XIV 229. • NUC.

**JOHN, Johann Friedrich.** (BORN: Anklam, Germany, 10 January 1782; DIED: Berlin, Germany, 5 March 1847) *German physician & chemist.*

From 1804 to 1806, John was a professor in Moscow at the Institute of Economics. He then became professor of chemistry and pharmacy at the University of Frankfurt an der Oder, followed by a position in Berlin, where he retired.

REFERENCES: ADB. • DBA: I 610, 35-49. • Hamburger & Meusel, *Gelehrte Deutschland*, 1796-1834. • *Neuer Nekrolog der Deutschen*. • Poggendorff: 1, col. 1197. • WBI.

### 2499. — German, 1808.

Chemisches Laboratorium, oder einweisung zur chemischen Analyse der Naturalien. Nebst Darstellung der nothigsten Reagentien von Johann Friedrich John. Mit einer Vorrede von M.H. Klaproth. Berlin, F. Maurer, 1808.

8°: xii, 522, [2] p., 2 plates (folding).

VERY RARE. With a foreword written by MARTIN HEINRICH KLAPROTH, this is the first volume of a series of six that contains the analytical memories of the author. This initial volume works as a good general textbook on practical chemistry techniques in the laboratory. It concentrates on the chemical analysis of natural objects including minerals, with information on the reagents used in the manipulation. Other volumes of the series contain analyses of natural objects from the plant, animal, and mineral kingdoms. With regard to mineral analyses, John investigated zinc ores, meteorites, columbite, tantalite, aragonite, manganese oxides, native silver, copper, and arsenic. He also investigated colored rock salt and found that yellow and red were caused by iron oxides, and although unable to determine the cause for the blue coloring, definitively showed that it was not due to copper.

**1810:** *Chemische Untersuchungen mineralischer, vegetabilischer und animalischer Substanzen. Fortsetzung des chemischen Laboratoriums.* Berlin, 1810. 8°: xxvi, 292, [2] p.

**1811:** *Neue Chemische Untersuchungen mineralischer, vegetabilischer und animalischer Substanzen. Zweite Fortsetzung des chemischen Laboratoriums.* Berlin, 1811. 8°: xvi, 318, [2] p.

**1813:** *Neue Chemische Schriften. Vierter Band. Chemische Untersuchungen mineralischer, vegetabilischer und animalischer Substanzen. Dritte Fortsetzung des chemischen Laboratoriums.* Berlin, 1813. 8°: xvi, 326, [2] p.

**1816:** *Neue Chemische Schriften. Fünfter Band. Chemische Untersuchungen mineralischer, vegetabilischer und animalischer Substanzen. Vierte Fortsetzung des chemischen Laboratoriums.* Berlin, 1816. 8°: xx, 246, [2] p.

**1821:** *Neue Chemische Schriften. Sechster Band. Chemische Untersuchungen mineralischer, vegetabilischer und animalischer Substanzen. Fünfte Fortsetzung des chemischen Laboratoriums.* Berlin, 1821. 8°: xx, 365, [2] p.

REFERENCES: Hlawatsch, *Bibliothekskatalog*, 1911: p. 143. • *Katalog Bergakademie Freiberg*, 1879: p. 333 [IV. 647a-f.]. • LKG: XI 30 & XI 31a. • Neu, *Chemical, Medical & Pharmaceutical Books*, 1965: no. ?? . • Partington, *History of Chemistry*, 1961-70: 3, p. 601-603. • Zeitlinger & Sotheran, *Bibliotheca Chemica*, 1921-52: no. 9809.

**JOHNSTON, Robert Mackenzie.** (BORN: 1844; DIED: 1918) *English Statistician.*

REFERENCES: ANZO-BA: 195, 194-204; S 55, 297-299. • BBA: I 622, 449-450. • *Cyclopedia of Tasmania*. Hobart, 1900. 2 vols. • WBI.

**2500. — English, 1888.**

Guide to the Rocks and Minerals of Tasmania. Hobart, W. T. Strutt, Government Printer, 1888.

2°: 52 p., 3 plates.

VERY SCARCE. Reproduced from the authors work on *The Geology of Tasmania*, this is an early (first?) listing of the minerals of Tasmania.

REFERENCES: BL: [no copy listed]. • Ferguson, *Bibliography of Australia*, 1941-69: no. ?? . • NUC.

**JOHNSTONE, Alexander.**

**2501. — English, 1897.**

Mineralogical Geology. A Synopsis For The Use Of Students To Accompany W. & A. K. Johnston's Geological Map Of The British Isles. Edinburgh & London, 1897.

8°: iii, 194 p., 14 plates. SCARCE.

REFERENCES: BMC: 2, 939. • NUC. • *USGS Library Catalog*.

**JOHNSTRUP, Johannes Frederik.** (BORN: 1818; DIED: 1894) *Danish geologist.*

REFERENCES: *Dansk Biografisk Haandleksikon*. • *Dansk Biografisk Lexikon*. • SBA: Scandinavian Biographical Archive: A-155, 154-166. • WBI.

**2502. — Danish, 1878.**

Gieseckes Mineralogiske Rejse i Grønland ved F. Johnstrup. Med et tillæg om de grønlandske stednavnes retskrivning og etymologi af Dr. H. Rink. Kjøbenhavn, B. Lunos Bogtrykkerei, 1878.

8°: xxvii, 372 p., 3 folding maps. "Gieseckes arbejder": p. xix-xxi.

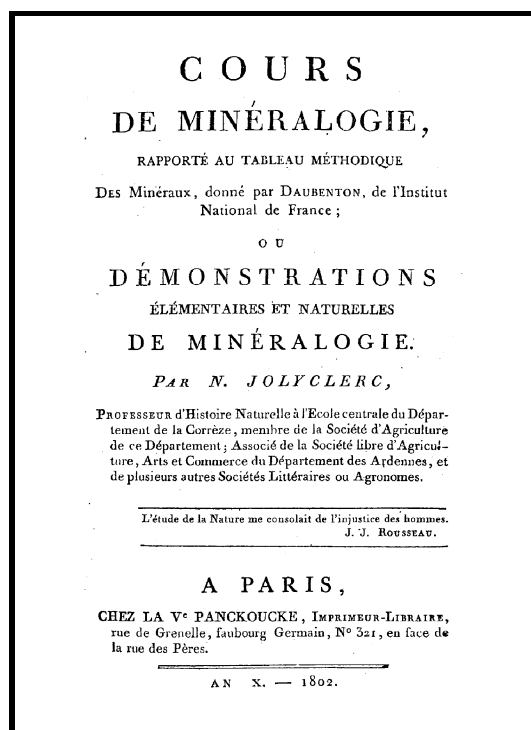
SCARCE. An account of Giesecke's mineral collecting trip to Greenland that occurred in the early nineteenth century. During this excursion he discovered several new mineral species, including cryolite.

REFERENCES: BMC: 2, 939. • NUC. • *USGS Library Catalog*.

**JOLYCLERC, Nicolas.** (BORN: ?; DIED: Paris, France, 1817) *French naturalist.*

Jolyclerc was professor of natural history Oise Central School.

REFERENCES: ABF: I 547, 227-229. • LKG: 292. • *Nouvelle Biographie Générale* (Hoefer). • WBI. • *World Who's Who in Science*: 890.



COURS DE MINÉRALOGIE, 1802

**2503. — French, 1802.**

Cours | de Minéralogie, | Rapporté au  
Tableau Méthodique | Des Minéraux, donné par  
Daubenton, de l'Institut | National de France; |  
ou | Démonstrations | Élémentaires et Naturelles  
| de Minéralogie. | Par N. Jolyclerc, | Professeur  
d'Histoire Naturelle à l'Ecole centrale du Dépar-  
| tement de la Corrèze, membre de la Société  
d'Agriculture | de ce Département; Associé de la  
Société libre d'Agricul- | ture, Arts et Commerce  
du Département des Ardennes, et | de plusieurs  
autres Sociétés Littéraires ou Agronomes. | [rule]  
| L'étude de la Nature me consolait de l'injustice  
des hommes. | J.J. Rousseau. | [rule] | A Paris, |  
Chez la V<sup>e</sup> Panckoucke, Imprimeur-Libraire, | rue  
de Grenelle, faubourg Germain, N° 321, en face de  
| la rue des Pères. | [double rule] | An X. — 1802.

8°: [i]-lxxxiv, [1]-368 p. PAGE SIZE: 210 x 130 mm.



## JONSTON

CONTENTS: [i-ii], Half title page, "Cours | De | Minéralogie," verso authorization for publication.; [iii-iv], Title page, verso blank.; [v]-x, Dedication to Joseph Verneilh.; [xi]-lxxxiv, "Introduction."; [1]-358, Text.; [359]-368, "Table | Méthodique Et Synonymique | Des Matières" (=index).

VERY SCARCE. This 'Course on Mineralogy' gives a full description of the methods used in the science of mineralogy including the standard chemical and physical properties. The theories of Daubenton are followed by Jolyclerc in his commentary and classification of the species.

REFERENCES: BMC: 2, 939. • LKG: XII 159. • NUC.

**JÓNÁS, József.** (BORN: Chemnitz, Hungary, 1787; DIED: Budapest, Hungary, 1 February 1821) *Hungarian mineralogist.*

REFERENCES: DBA: I 610, 325-328; 610, 382; II 661, 81. • Hamberger & Meusel, *Gelehrte Teutschland*, 1796-1834. • Poggendorff: 1, col. 1200. • WBI. • Wurzbach, *Biographisches Lexikon Österreich*, 1856-91.

### 2504. — German, 1820.

Ungerns Mineralreich | Orycto-Geognostisch | Und | Topographisch | Dargestellt | Von | Joseph Jonas, | [...9 lines of titles and memberships...] | [tapered rule] | [tapered rule] | Pesth, 1820. | Hartleben's Verlag.

[SERIES TITLE PAGE:]

Physio-Technographisches | Magazin | Über Die | Anorganische Natur | Des Oesterreich'schen Kaiserstaates. | [tapered rule] | Herausgegeben | Von | Joseph Jonas, | [...10 lines of titles and memberships...] | [wavy rule] | Erster Jahrgang. | [wavy rule] | [tapered rule] | Pesth, 1820. | Hartleben's Verlag.

8°: xlviii, 414, [9] p. PAGE SIZE: 208 x 130 mm.

RARE. A compendium about the mineral occurrences of Hungary, which is divided into two parts. The first gives an account of the mineralogy of various ores and a description of the author's trip through the mining districts of Hungary. The second portion is a systematic description of the minerals of Hungary.

REFERENCES: Agassiz, *Bibliographia Geologiae*, 1848-54: 3, 329. • NUC. • Papp, *Magyar Topografikus*, 2002: p. 129-132. • Sinkankas, *Gemology Bibliography*, 1993: no. 3252.

**JÓNSSON, Páll.** (BORN: Helgastaðir, Eyjafjarsýsla, Iceland, 2 February 1857; DIED: 24 May 1930) *Icelandic poet & naturalist.*

Jónsson was educated in Iceland and worked as an instructor in Akureyri.

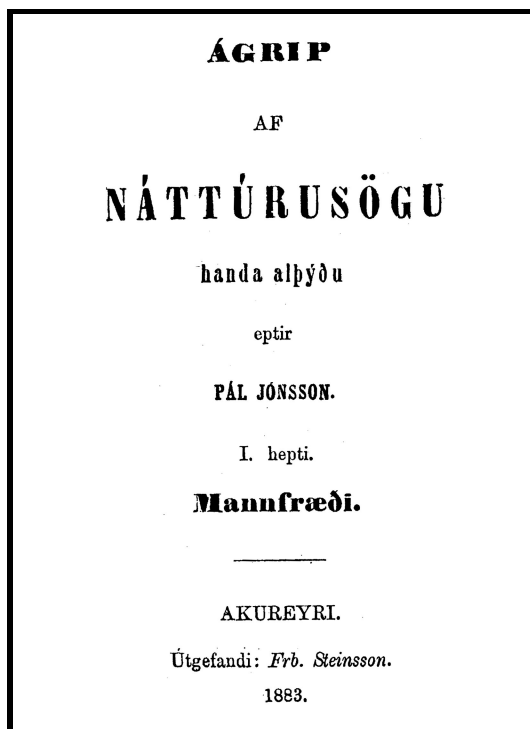
REFERENCES: Hermannsson, H. "Icelandic authors of to-day," *Islandica*, 6 (1913), pp. xiv, 69. • SBA: Scandinavian Biographical Archive: A-245, 329. • WBI.

### 2505. — Icelandic, 1883 [First edition].

Ágrip | Af | Náttúrusögu | handa alþýðu | eptir | Pál Jónsson. | I. hepti. | Mannfræði. | [rule] | Akureyri | Útgefandi: Frb. Steinsson. | 1883.

8°: x, 240 p.

RARE. Jónsson's *Popular Manual of Natural History of Iceland* treats all aspects of that island's



ÁGRIP, 1883

remarkable environment, including much on geology and some mineralogy.

REFERENCES: BL. • NUC.



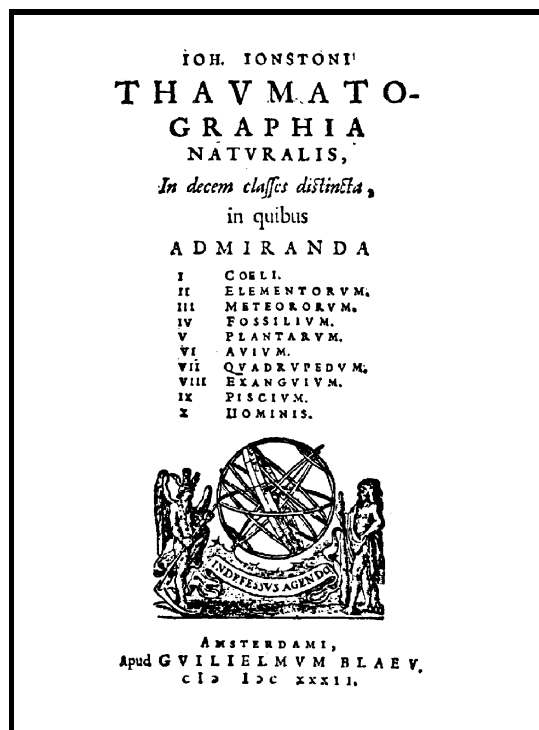
JONSTON

**JONSTON, Joannes.** (BORN: Sambter, Poland, 3 September 1603; DIED: Ziebendorf, Poland, 8 June 1675) *Polish naturalist.*

Jonston or Johnstone was a naturalist of English ancestry who was born and buried in Poland. He studied at the universities of St. Andrews and Cambridge, lived for a time in London, received an M.D. and opened a medical

practice in Leyden. Throughout his life he travelled extensively throughout the continent and published a considerable number of works.

REFERENCES: Allibone, *Dictionary of English Literature*, 1859-71. • BBA: I 623, 212-219. • Bilikiewicz, T., "Johann Jonston (1603-1675) und seine Taetigkeit als Arzt," *Suddhoffs Archiv*, 23 (1930), 357-81. • *Biographie Universelle*. • DBA: II 661, 254. • DNB: 10, 968-9. • DSB: 7, 164. • Hirsch, *Biographisches Lexikon*, 1884-8. • *Nouvelle Biographie Générale* (Hoefer). • Orgelbranda, *Encyklopedia Powszechna*, 1898-1912: 7, 538. • PBA: *Polskie Archiwum Biograficzne*: 187, 201-288. • Poggendorff: 1, col. 1202. • Pollack, *Bibliografia Literary Polskiej*, 1963-83: 2, 293-5. • *Polski Słownik Biograficzny*: 11, 268-70 [by T. Bilikiewicz]. • Watt, *Bibliotheca Britannica*, 1824. • WBI.



THAUMATOGRAPHIA NATURALIS, 1632

**2506. — Latin, 1632** [First edition].

Ioh. Ionstoni | Thavmato- | graphia Natvralis, | In decem classes distincta, | in quibus | Admiranda | I Coeli. | II Elementorvm. | III Meteororvm. | IV Fossilivm. | V Plantarvm. | VI Avivm. | VII Qvadrpedvm. | VIII Exangvivm. | IX Piscivm. | X Hominis. | [ornament] | Amsterdami, | Apud Gvilielmvm Blaeu. | c1D IOC XXXII.

12°: [12], [1]-501, [3] p. PAGE SIZE: 110 x 70 mm.

VERY SCARCE. First appearance of the author's most popular and important work. Jonston records his observations on the wonders of natures, which he organizes into the ten classes of: the heavens, the elements, meteors, minerals, plants, birds, quadrupeds,

insects and bloodless animals, fish and men. It includes early references to nature in America.

REFERENCES: DSB: 7, 164. • Sinkankas, *Gemology Bibliography*, 1993: no. 3277 [not seen]. • Thorndike, *History of Magic*, 1923-58: 7, 310. • Ward & Carozzi, *Geology Emerging*, 1984: no. 1217. • Wellcome Catalog (Books): 1, no. 3477.

**2507. 2nd edition, 1633:** Thaumato-graphia Naturalis, In Classes decem divisa ... Editio Secunda priore auctior. Amsterdami, J. Janssonius, 1633.

12°: [6], 578, [2] p. VERY SCARCE.

REFERENCES: Sinkankas, *Gemology Bibliography*, 1993: no. 3278. • Wellcome Catalog (Books): 1, no. 3478.

**2508. 3rd edition, 1661:** Joh. Jonstoni | Thaumato- | graphia | naturalis, | In decem Classes distincta, | in quibus | Admiranda | [In two columns] I. Coeli. | II. Elementorum. | III. Meteororum. | IV. Fossilium. | V. Plantarum. | [Vertical rule] VI. Avium. | VII. Quadrupedum. | VIII. Exanguium. | IX. Piscium. | X. Hominis. | [ornament] | Amstelodami, | [rule] | Apud Joannem Janssonium, M DC LXI.

12°: ★6 A-V<sup>12</sup> X<sup>6</sup> Y<sup>6</sup> (E4 missigned D4); ??ℓ.; [12], [1]-498, [4] p. PAGE SIZE: 128 x 74 mm.

CONTENTS: [2 pgs], Title page, verso 9 lines of quotation.; [9 pgs], Dedication, signed Johannes Jonstonus.; [1 pg], Blank.; [1]-498, Text.; [3 pgs], Poem, signed Venceslaus Clemens.; [1 pg], Blank.

VERY SCARCE. Mineralogy is covered on pages 123 to 176.

REFERENCES: Ward & Carozzi, *Geology Emerging*, 1984: no. 1219.

**2509. 4th edition, 1665:** Joh. Jonstoni | Thaumato- | graphia | naturalis, | In decem Classes distincta, | in quibus | Admiranda | [In two columns] I. Coeli. | II. Elementorum. | III. Meteororum. | IV. Fossilium. | V. Plantarum. | [Vertical rule] VI. Avium. | VII. Quadrupedum. | VIII. Exanguium. | IX. Piscium. | X. Hominis. | [ornament] | Amstelodami, | [rule] | Apud Joannem Janssonium | à Waesberge, | Et Elizeum Weyerstraet. | M DC LXV.

12°: A-V<sup>12</sup> X<sup>10</sup>; 249ℓ.; [1]-495 (i.e., 497), [3] p., engraved title page (included as A1 or pages 1-2). Pages 130-131 are misprinted 128-129. PAGE SIZE: 130 x 70 mm.

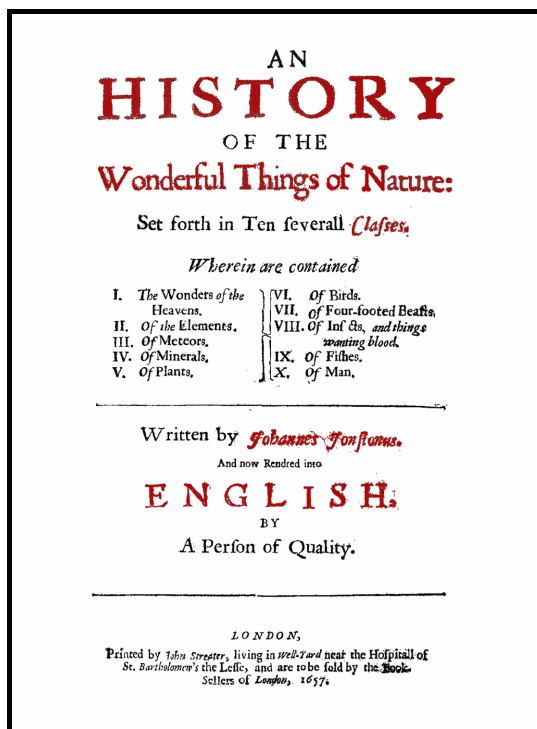
CONTENTS: [1-2], Engraved title page, showing a scholar at work at a desk with an angel looking on and a scenic vista shown through the windows. Text on the plate reads: "Joh. Jonstoni | Thaumato-graphia | Naturalis," verso blank.; [3-4], Printed title page, verso 9 lines of quotation signed "Scalig. lib. I. de Plantis."; [5]-[12], Dedication, signed Johannes Jonstous, 15 May 1630.; [13], Sectional title page, first class, "...Classis Prima. | In quâ | Coeli | Admiranda."; [14], "Syllabus Capitum | Et Articulorum. [=table of contents, first class]; 15-48, Text, first class.; [49], Sectional title page, second class, "...Classis Secudna. | In quâ | Elementorum | Admiranda."; [50], Table of contents, second class.; 51-104, Text, second class.; 105, Sectional title page, third class, "...Classis Tertia. | In quâ | Meteororum | Admiranda."; 106, Table of contents, third class.; 107-[130], Text, third class.; [131], Sectional title page, fourth class, "...Classis Quarta. | In quâ | Fossilium | Admiranda."; 132, Table of contents, fourth class.; 133-182, Text, fourth class.; 183, Sectional title page, fifth class, "...Classis Quinta. | In quâ | Plantarum | Admiranda."; 184-[185], Table of contents, fifth class.; 186-240, Text, fifth class.; 241, Sectional title page, sixth class, "...Classis Sexta. | In quâ | Avium | Admiranda."; 242, Table of contents, sixth class.; 143 (i.e. 243)-292, Text, sixth class.; 293, Sectional title page, seventh class, "...Classis Septima. | In quâ | Quadrupedum | Admiranda."; 294, Table of contents, seventh class.; 295-338, Text, seventh class.; 339, Sectional title page, eighth class, "...Classis Octava. | In quâ | Exanguium | Admiranda."; 340, Table of contents, eighth

## JONSTON

class.; 341-404, Text, eighth class.; 405, Sectional title page, ninth class, "...Classis Nova: | In quâ | Piscium | Admiranda."; 406, Table of contents, ninth class.; 407-428, Text, ninth class.; 429, Sectional title page, tenth class, "...Classis Decima: | In quâ | Hominis | Admiranda."; 430-431, Table of contents, tenth class.; 432-495, Text, tenth class.; [3 pgs], Poem, signed "Venceslaus Clemens."

SCARCE. First published in 1632, Jonston's *Thaumatographia* is a compendium of wonders of the world of nature. It is a collection of observations and references of natural marvels, retrieved from all ancient and contemporary literature, and organized by the author into a series of distinct sections. Jonston organizes the text into ten classes that describe: the heavens, the elements, meteors, minerals, plants, birds, quadrupeds, insects and bloodless animals, fish and men. The second on fossils and minerals is quite extensive with references to Albertus Magnus, Pliny and Theophrastus. A section within the class of plants, discusses tobacco and includes early references to nature in America.

REFERENCES: DSB: 7, 164. • Ferguson, *Histories of Inventions*, 1981: 6, 12-3. • NLM 17th Century Books (Krivatsy): no. 6271. • Thorndike, *History of Magic*, 1923-58: 7, 310. • Ward & Carozzi, *Geology Emerging*, 1984: no. 1220.



AN HISTORY, 1657

2510. English transl., 1657: [In black:] An | [in red:] History | [in black:] of the | [in red:] Wonderful Things of Nature: | [in black:] Set fourth in Ten severall [in red:] Classes. | [in black:] Wherein are contained | [The contents set in two columns separated by a vertical rule made by two opposing braces:] I. The Wonders of the | Heavens. | II. Of the Elements. | III. Of Meteors. | IV. Of Minerals. | V. Of Plants. | [Vertical braces separating the columns:] VI. Of Birds. | VII. Of Four-footed Beasts. | VIII. Of Insects, and things | wanting blood. | IX. Of Fishes. | X. Of Man. | [rule] | Written by [in red:] Johannes Jonstonus.

| [in black:] An now Rendered into | [in red:] English, | [in black:] by | A Person of Quality. | [rule] | London, | Printed by John Streater, living in Well-Yard near the Hospitall of | St. Bartholomew's the Lesse, and are to be sold the Book- | Sellers of London, 1657.

4<sup>o</sup>: A-Xx<sup>4</sup> Yy<sup>2</sup>; 185ℓ.; [14], 1-354, [2] p. Title printed in red and black. PAGE SIZE: 275 x 170 mm.

CONTENTS: [2 pgs], Title page, verso blank.; [4 pgs], Dedication, signed John Jonston, 1631.; [7 pgs], "The Contents of all the Chapters and | Articles contained in this Book."; [1 pg], "Scalig. l. 1. de Plantis." (catchword "Of" does not connect).; [2 pgs], "Th the Right | Honourable, | Edvvard Lord Montague, | ..."—signed John Rowland.; 1-354, Text.; [1 pg], "Books Printed for John Streater, ..."; [1 pg], Blank.

VERY SCARCE. Translation by John Rowland? of *Thaumatographia Naturalis* ... (Amstelodami, 1661).

The fourth class describing minerals, stones and fossils occupies pages 91-126.

REFERENCES: NLM 17th Century Books (Krivatsy): no. 6272. • Ward & Carozzi, *Geology Emerging*, 1984: no. 1221. • Wellcome Catalog (Books): 3, 366. • Wing: J1017.



NOTITIA REGNI MINERALIS, 1661

2511. — Latin, 1661.

Johannis Jonstoni, | Doctoris Medici, | Notitia Regni | Mineralis, | Seu | Subterraneorum | Catalogus, | Cum præcipuis differentiis. | [ornament] | Lipsiæ | Sumptibus Viti Jacobi Trescheri | Bibliopol. Uratislav. | [rule] | Typis Hæred. Colerianorum, | Anno M DC LXL.

12<sup>o</sup>: A-E<sup>12</sup>; 60ℓ.; 101, [19] p.

RARE. The whole of mining science, such as the scholars of the end of the XVII<sup>e</sup> century

included/understood it, finds its expression succinte in the opusculum of Jean Jonston, published in 1661 with Leipzig, heading *Notitia regni mineralis seu subterraneorum catalogus*. Coming from a Scottish family established in Poland, Jonston said itself one, *Scoto-Polonus*. Born in Szamotuly in 1605, it took its doctorate of medicine in Leyde; the major part of its life ran out in Leszno at the court of Boguslas Leszczynski, of which he was the doctor and the tutor. It starts its treaty by a review of the gases which are released from the ground and by that of water which results from this. It distributes the matters of mines themselves in five groups, namely: 1), glèbes, 2) solidified juices, 3) resins, 4) stones, 5) metals. We cannot occupy us here of the detail of the classification of Jonston. It is based on qualities less essential, external, like state of aggregation, degree of limpidity, color. It could not be of it differently. At that time, analytical chemistry was hardly at its beginnings; the bases of systematic reasonable of minerals did not exist yet.

It should be believed, according to the final words of the opusculum of Jonston, that it conceived it like a draft of a broader work. But this work never appeared.

REFERENCES: Beekman, *Systematische Mineralogie*, 1906: p. 17 & 28. • BMC: 2, 942. • CBN: 78, col. 1065. • Kobell, *Geschichte der Mineralogie*, 1864: 58. • Koziorowski, *Histoire de la Minéralogie en Pologne*, 1933. • LKG: III 52. • VD17: 39:114213V. • Ward & Carozzi, *Geology Emerging*, 1984: no. 1222.

#### JORDAN, James B. *English chemist.*

REFERENCES: Allibone, *Dictionary of English Literature*, 1859-71. • BBA: I 630, 30. • WBI.

#### 2512. — English, 1873.

Elementary Crystallography. With which is given a Series of Nets for the Construction of Models Illustrative of the Simple Crystalline Forms. London, 1873.

8°: 48 p., 8 color plates. RARE.

Another edition, 1921: Crystallography. A series of nets for the construction of models illustrative of the simple crystalline forms. London, T. Murby & Co., 1921. [2] p., 9 plates (colored, 250 x 370 mm.). [BL Shelfmark, 1818.a.28.]

REFERENCES: BL: [012201.e.1/8.]. • BMC: 2, 943. • NUC.

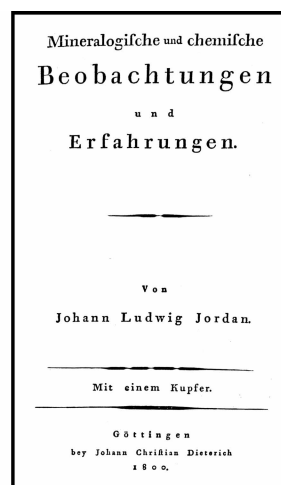
**JORDAN, Johann Ludwig.** (BORN: Göttingen, Germany, 6 June 1771; DIED: Ostróde, Poland, 1 May 1853) *German physician.*

Jordan had a medical practice at Clausthal, Austria, where he became warden of the mint and instructor of chemistry and smelting at the city's school of mines.

REFERENCES: DBA: I 611, 86-90; II 661, 438. • Ferguson, *Bibliotheca Chemica*, 1906: 1, 439-440. • Hamberger & Meusel, *Gelehrte Deutschland*, 1796-1834. • Poggendorff: 1, col. 1202. • WBI.

#### 2513. — German, 1800.

Mineralogische und chemische | Beobachtungen | und | Erfahrungen. | [ornate rule] | Von | Johann Ludwig Jordan. | [ornate rule] | Mit einem Kupfer. | [tapered rule] | Göttingen | bey Johann Christian Dietrich | 1800.



MINERALOGISCHE, 1800

8°: a-b<sup>8</sup> c<sup>3</sup> A-X<sup>3</sup>; 182ℓ.; [i]-xxxviii, [1]-326 p., one folding plate (crystal drawings). PAGE SIZE: 204 x 118 mm.

CONTENTS: [i-ii], Title page, verso blank.; [iii]-[v], Dedication, signed Johann Ludwig Jordan.; [vi], Blank.; [vii]-xviii, "Vorrede," dated 14 June 1800.; [xix]-xxxviii, "Inhalts-Anzeige.;" [1], Sectional title page, "Geologisch-oryktognostisch- | mineralogische | Beobachtungen | und | Erfahrungen.;" [2], Blank.; [3]-254, Text.; [255], Sectional title page, "Chemisch-mineralogische | Beobachtungen | und | Erfahrungen.;" [256], Blank.; [257]-324, Text.; [325]-326, "Erklärung der Kupfertafel.;" [At end], one folding plate (xl drawings).

VERY SCARCE. The author provides perspectives on the impact of chemical examination of minerals and rocks. Included are early observations on geology and its relationship to mineralogy.

REFERENCES: BMC: 2, 943. • LKG: VI 114.

#### 2514. — German, 1803.

Mineralogische berg- und huttenmannische Reisebemerkungen vorzüglich in Hessen, Thüringen, am Rheine und im Sayn-Altenkirchner Gebiete, gesammelt von Johann Ludwig Jordan. Göttingen, Dieterich, 1803.

8°: xvi, 288 p., 4 engraved plates.

RARE. A topographical mineralogy describing Jordan's review of the mining and manufacturing works in Hessen, Thüringen and the Rhein valley of Germany.

Preliminary abstract?, 1802: *Bemerkungen auf einer Reise durch einen Theil Deutschlands in mineralogischer Hinsicht*. Göttingen, 1802. Listed by LKG (XIV 51) as a preliminary abstract of the full work.

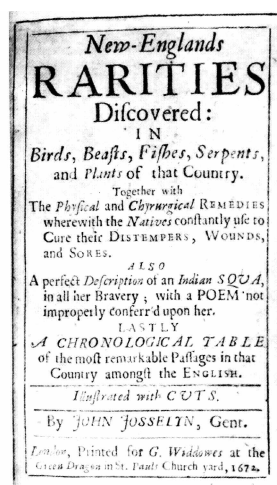
REFERENCES: BL: [990.a.31.]. • LKG: XIV 133.

#### JOSSELYN, John. *English author.*

REFERENCES: ABA: I 871, 415-426. • Appleton *Cyclopedia of American Biography*. • Drake, *Dictionary of American Biography*, 1872. • National *Cyclopedia of American Biography*. • WBI.

#### 2515. — English, 1672 [First edition].

[With a double rule box:] New-Englands | Rarities | Discovered: | In | Birds, Beasts, Fishes,



RARITIES, 1672

Serpents, | and Plants of that Country. | Together with | The Physical and Chyrurgical Remedies | wherewith the Natives constantly use to | Cure their Distempers, Wounds, | and Sores. | Also | A perfect Description of an Indian Squa, | in all her Bravery; with a Poem not | improperly conferr'd upon her. | Lastly | A Chornological Table | of | the moste remarkable Passages in that | Country amongst the English. | [rule] | Illustreate with Cuts. | [rule] | By John Josselyn, Gent. | [rule] | London, Printed for G. Widdowes at the | Green Dragon in St. Pauls Church-yard. 1672.

8°: A-G<sup>8</sup> H<sup>5</sup>; 61ℓ.; [6], 1-114, [2] p., 11 woodcuts in text, one folding woodcut (p. 54). PAGE SIZE: 146 x 88 mm.

CONTENTS: [2 pgs/=A1], Blanks.; [2 pgs/=A2], Title page, verso blank.; [2 pgs/=A3r-A3v], Dedication to Samuel Fortrey.; 1-114/A4r-H4v, Text.; [2 pgs/=H5], Publisher's list.

VERY RARE. This is Josselyn's first account of his voyages to New England in 1638 and 1663. The travel book describes the customs and natural history of the area with special emphasis on Maine, where the author visited his brother. It includes accounts of the medicinal uses of plants.

**Facsimile reprint, 1926:** Josselyn, John: *New-Englands rarities discovered: In birds, beasts, fishes, serpents, and plants of that country. Together with the physical and chyrurgical remedies wherewith the natives constantly use to cure their distempers, wounds, and sores. Also a perfect description of an Indian Squa, in all her bravery; with a poem not improperly conferr'd upon her. Lastly a chronological table of the most remarkable passages in that country amongst the English. Illustrated with cuts.* By John Josselyn, Gent. (London, G. Widdowes, 1672), Berlin, W. Junk, 1926, pp. [4], 114, (2, adv.), (1, printers device: a dragon), text-illustrations and plate (woodcuts of plants), small 8°, printed wrappers.

**Facsimile reprint, 1972:** Josselyn, John. *New England's Rarities Discovered.* Boston, MA: Historical Society, 1972.

REFERENCES: Brunet: 3, 574. • *Cleveland Herbal & Botanical Collections*, 1992: no. 247. • Hunt Botanical Catalog: no. 322. • Sabin, *Dictionary*, 1868-1936: no. 36674.

• Wing: J-1093.

**2516. 2nd edition, 1675:** *New-Englands | Rarities | Discovered: | In | Birds, Beasts, Fishes, Serpents, | and Plantes of that Country, | Together with | The Physical and Chyrurgical Remedies | wherewith the Natives constantly use to | Cure their Distempers, Wounds, | and Sores. | Also | A Perfect Description of an Indian Sqva, | in all her Bravery; with a Poem not | improperly conferr'd upon her. | [rule] | By John Josselyn, Gent. | [rule] | The Second Addition. | [rule] | Illustrated with Cvts. | [rule] | London, Printed for C. Widdowes at the | Green Dragon in St. Pauls Church-yard, 1675.*

4°: A-H<sup>4</sup> χ<sup>1</sup>; 61ℓ.; [6], 1-114, [2] p. PAGE SIZE: 114 x 84 mm. VERY RARE.

CONTENTS: [2 pgs/=A1], Blanks.; [2 pgs/=A2], Title page, verso blank.; [2 pgs/=A3], Dedication to Samuel Fortrey.; 1-114 (=A4r-H4v), Text.; [2 pgs/=χ1], Publisher's list.

REFERENCES: BL.

**2517. Reprint edition, 1865:** *New-England's | Rarities | Discovered In Birds, Beast, Fishes, | Serpents, And Plants Of | That Country. | [rule] | By John Josselyn, Gent. | [rule] | With an Introduction and Notes, | By Edward Tuckerman, M.A. | [ornament] | Boston: | William Veazie. | MDCCLXV.*

4°: [4], [vii]-viii, 169 p., illus.

VERY SCARCE. Edited by Edward Tuckerman. According to Sabin, this reprint consisted of seventy-five copies printed on medium and twenty-five on large paper, and it is valuable for the numerous additions made by the editor.

REFERENCES: Sabin, *Dictionary*, 1868-1936: no. 36675.

**JOURDAN, Antoine-Jacques-Louis.** (BORN: 1788; DIED: 1848) *French military surgeon & translator.*

Jourdan, French doctor, was in particular attached to the military hospital of the Val-de-Grâce, where he became a specialist in the treatment of syphilis. His treatise on the subject, *Traité Complet des Maladies Vénériennes* (Paris, 1826), was an authority for many years.

REFERENCES: ABF: I 551, 46-50; II 362, 367. • *Biographie Universelle*. • Dezobry, *Dictionnaire de Biographie*, 1889. • *Nouvelle Biographie Générale* (Hoefer). • WBI.

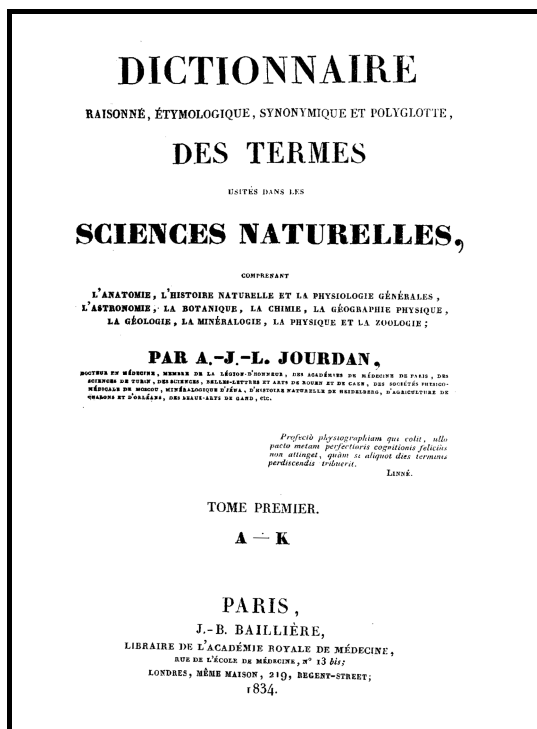
**2518. — French, 1834.**

*Dictionnaire | Raisonné, Étymologique, Synonymique Et Polyglotte, | Des Termes | Usités Dans Les | Sciences Naturelles, | Comprenant | L'Anatomie, L'Histoire Naturelle Et La Physiologie Générales, | L'Astronomie, La Botanique, La Chimie, La Géographie Physique, La Géologie, | La Minéralogie, La Physique Et La Zoologie; | Par A.-J.-L. Jourdan, | [...4 lines of titles and memberships...] | [4 lines of quotation, signed Linné.] | Tome Premier. | A — K. | Paris, J.-B. Baillière, | Libraire De L'Académie Royale De Médecine, | Rue De L'École De Médecine, N° 13 bis; | Londres, Même Maison, 219, Regent-Street; | 1834.*

2 vols. [VOL 1] 8°: [i]-xi, [1], [1]-674, [2] p. [VOL 2] 8°: [4], [1]-628 p. PAGE SIZE: 208 x 134 mm.

CONTENTS: [Vol 1] [i-ii], Half title page, "Dictionnaire | Des Termes Usités | Dans | Les Sciences Naturelles," verso advertisements.; [iii-iv], Title page, verso blank.; [v], Dedication to M. Courtin.; [vi], Blank.; [vii]-xi, "Préface.;" [1 pg], Blank.; [1]-674, Text (A-K.); [1 pg], "Errata.;" [1 pg], Blank.

[Vol 2] [2 pgs], Half title page, "Dictionnaire | Des



DICTIONNAIRE RAISONNÉ, 1834

Termes Usités | Dans | Les Sciences Naturelles,” verso advertisements.; [2 pgs], Title page, verso blank.; [1]-614, Text (L-Z); [615]-628, “Supplément.”

VERY SCARCE. Jourdan's *Dictionary of the Terms Used in the Natural Science* gathers the technical terms in general contemporary use including their etymology, history, synonyms, and foreign equivalents. Among the thousands of terms defined are included those used in geology and mineralogy. It is one of several science dictionaries published in the mid-19th century, but is superior in its term selection and the information presented.

REFERENCES: BL.

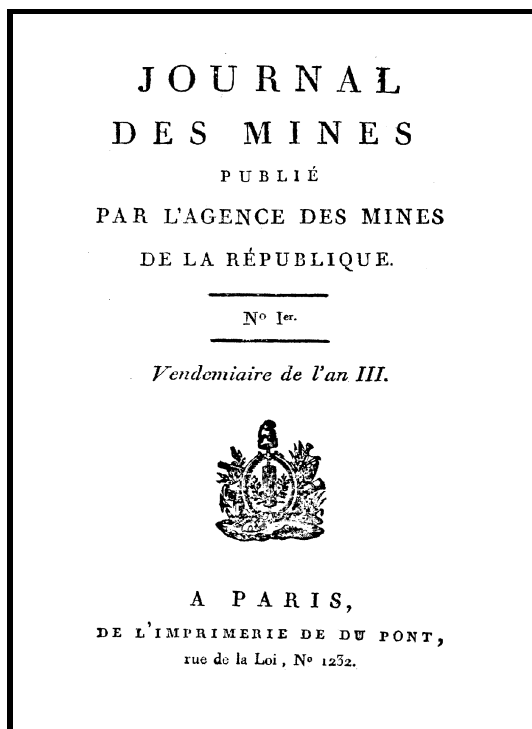
#### JOURNAL DES MINES.

2519. — French, 1794-1832 [Periodical].

Journal | Des Mines, | Publié | Par l'Agence Des Mines | De La République. | [rule] | N° 1<sup>er</sup>. | [rule] | Vendemiaire de l'an III. | [ornament] | A Paris, | De L'Imprimerie De Du Pont, | rue de la Loi, N° 1232.

Vols. 1-38 with 2 index vols. (all publ.). With 169 engraved plates or maps and 22 tabs.

RARE, especially in complete runs. This is one of the earliest mineralogical and mining journals, which still continues in print although now under the name of *Annales des Mines*. The text contains many contributions from famous mineralogists of the time such as Haüy, Dolomieu, Daubuisson, Brongniart, Laplace, Werner, etc.



JOURNAL DES MINES, 1794

REFERENCES: NUC. • USGS Library Catalog.

#### JOURNAL FÜR DIE CHEMIE.

2520. — German, 1807 [Periodical].

Journal | für die | Chemie, Physik | und | Mineralogie, | ... | Herausgegeben | von | Dr. Adolph Ferdinand Ghelen, | ... | Vierter Band. | ... | Berlin, 1807.

Published 1807 (vol. 4) to 1809 (vol. 9). It was issued monthly. In 1810 the name dropped “Mineralogie” from the title and the journal was continued by *Journal für die Chemie und Physik*. RARE.

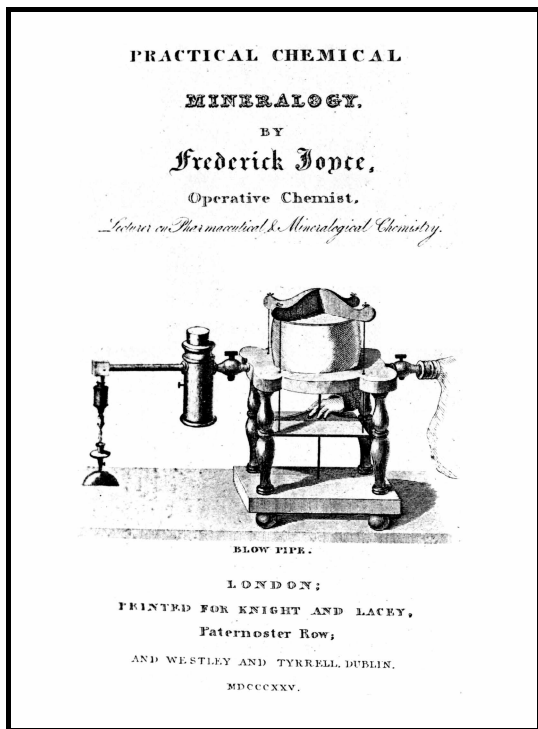
REFERENCES: BL. • Bolton, *Catalogue of Periodicals*, 1897. • NUC.

JOYCE, Frederick.

Purchased Accum's laboratory supply business in London, 1822.

2521. — English, 1825.

[Printed title page:] Practical | Chemical Mineralogy; | or, | Concise and Easy Methods, | Illustrated by Experiment, | for readily ascertaining the nature and value | of the different metallic ores and other | mineral substances, | as comprehended in their | Assay, Analysis, Reduction &c. | Together with | a description of the apparatus and tests used | by the scientific mineralogist, and the process adopted by the practical miner; the | whole intended as a companion to the travel- | ler and



PRACTICAL CHEMICAL MINERALOGY, 1825

the mineralogical cabinet. | [rule] | By Frederick Joyce, | Operative Chemist, &c. | [rule] | London: | Printed for Knight and Lacey, | Paternoster-Row; | and Westley and Tyrrel, Dublin. | [rule] | MDC-CCXXV.

[SECOND TITLE PAGE:]

[Engraved title page:] Practical Chemical | Mineralogy, | By | Frederick Joyce, | Operative Chemist, | Lecturer on Pharmaceutical & Mineralogical Chemistry. | [vingette: bellows blow-pipe] | London; | Printed for Knight and Lacey, | Paternoster Row; | and Westley and Tyrrell, Dublin. | MDC-CCXXV.

8°: [A]<sup>8</sup> B-R<sup>12</sup> S<sup>6</sup>; 206ℓ.; [4], [i]-xii, [1]-376, [12], [1]-8 publisher's catalog p., frontispiece. PAGE SIZE: 183 x 108 mm.

CONTENTS: [2 pgs], Blank, verso frontispiece, "Apparatus used in Chemical Mineralogy," by H. Adlard (shows scales, weights, furnace, and tongs).; [2 pgs], engraved title page with vingette of bellows type blow-pipe, verso blank.; [i-ii], Titlepage, verso "R.G. Gunnell, and Co., Crown Court, Fleet Street."; [iii]-vi, "Preface."; [vii]-xii, "Contents."; Errata slip tipped in between p. xii and [1].; [1]-16, "Practical Chemical Mineralogy," [from contents: Preliminary Observations, explaining the general use of the different instruments employed in the chemical examination of mineral substances.]; 17-39, "List of Tests."; 40-71, "Enumeration of those processes, some of which are always necessary in the chemical examination of mineral substances."; 72-73, "Order of the metals."; 74-75, "Table of the metals."; 76-376, Text, describing the chemical

properties of each metal and its ores.; [1 pg], "F. Joyce begs to inform Philosophical Gentleman, Chemists, and the Scientific public in general, that, having taken the Business of Mr. F. Accum, he continues it in all its Branches ..."; [5 pgs], "From the Descriptive Catalogue of Chemical Apparatus and Instruments, manufactured and sold by Frederick Joyce."; [4 pgs], "List exhibiting a select assortment of chemical apparatus and preparations ..."; [1 pg], "Descriptive Catalogue. Chemical preparations employed in medical pharmacy ..."; [1 pg], "R.G. Gunnell and Co., Crown Court, Fleet Street."; [1]-8, "Popular works printed for Knight and Lacey ..."

VERY SCARCE. After the preliminary matter, the reagents needed, the techniques involved, and the properties of ores are discussed. The volume then describes the various tests used for detecting metallic elements in either minerals or ores. Included are analysis' for gold, silver, palladium, platinum, chromium, etc.

REFERENCES: BMC: 2, 948.

2522. German transl., 1827: *Practische Anleitung zur chemischen Analytik und Probierkunst der Erze, Metallgemische, Erden, Alkalien, brennbaren Substanzen, Mineralwässer und Salzsoolen; oder Grundzüge der mineralogischen Chemie...* Aus dem Englischen frei übersetzen und mit Anmerkungen und Zusätzen von J. Waldauf von Waldenstein. Wien, Mörscher und Jasper, 1827.

8°: viii, 331 p., table, 4 illus., 2 lithographic plates.

VERY SCARCE. Translation by J. Waldauf von Waldenstein of *Practical Chemical Mineralogy* (London, 1825). A work in practical chemistry for the miners, metallurgists, mineralogists, practical chemists, physicians, apothecaries and other friends of chemistry.

REFERENCES: Callisen, *Medicinisches Schriftsteller-Lexicon*, 1830-45: 10, p. 16.

2523. French transl., 1825: *Chimie minéralogique, ou méthodes simples et faciles démontrées par l'expérience, pour déterminer immédiatement la nature et la valeur des différentes Mines métalliques et autres substances minérales comprises dans leur essai, leur analyse.* Paris, Tournachon-Molin, 1825.

12°: iv, 435 p.

RARE. Translation by Ph. Coulier of *Practical Chemical Mineralogy* (London, 1825).

**JUGEL, Johann Gottfried.** (BORN: Oberlausitz, Austria, 1707; DIED: Berlin, Germany, 12 May 1786) *German alchemist.*

In 1742 Jugel was appointed the director of mining activities in Prussia. He gathered a considerable reputation for his knowledge of the world of science and nature, especially chemistry, mineralogy, mining, and iron making. All his life had been devoted to the investigation of nature, and in some 36 books and papers he had recorded his views in the mathematical, mining, and occult sciences. On account of his reputed knowledge of chemistry, he became a member of the Rosicrucian Society. He was, however, attacked by Kopp, who calls his work a "coagulum of nonsense" and considers that he has given proof that the science of the later Rosicrucians was "pseudo-science of the most contemptible kind." He believed strongly in alchemy. At his retirement in 1771, he moved to Berlin.

REFERENCES: ADB. • DBA: I 613, 188-197. • Ferguson, *Bibliotheca Chemica*, 1906: 1, 440-443. • Jöcher, *Gelehrten-Lexikon, Supplement*. • LKG: 292. • Meusel, *Verstorbenen Deutschen Schriftsteller*, 1802-16. • Poggendorff: 1, col. 1208. • WBI.

2524. — German, 1743.

Johann Gottfried Jugels höchstnützlichtes Berg- und Schmelz-Buch, in Zwey Theile getheilt.

In dem ersten Theil wird gehandelt von der wahren natürlichen Erzeugung derer Mineralien und Metallen in denen Adern der Erden, samt ihren besondern Eigenschaften, auch wie dieselben zu erfinden seyn. In dem andern Theil wird gehandelt von dem schlechten Zustande des ietzigen Berg-Wesens, ferner von der wahren natürlichen und noch nie entdeckten Röstung, Beschickung und Schmelzung derer Ertze, auch von der Stein und Kupfer-Seigerung. Nebst einem Anhang, daraus zu sehen, die Fürtreflichkeit derer in Schlesien befindlichen edlen und sehr reichen, Gold- und Silber-haltigen Ertz-Gebürge, wie nemlich dieselben zu Hohen Landes-Herrschaftl. Interessen und des gantzen Landes Besten könten genutzt werden Allen Liebhabern der Metallurgie zu grossem Nutzen, und dem edlen Bergbau zur Aufnahm und Erhebung, aus dem Lichte der Natur, durch eigene Praxin entdeckt. Berlin, zu finden bey Johann Andreas Rüdiger, 1743.

8°: [i-ii], 12-189, [1] blank p., 5 plates.

RARE. Written in two parts, the first of which gives information on the formation of minerals and metals in veins in the earth, including details on their physical properties. The second part gives details on the roasting and smelting of the ores, with special emphasis on copper, gold, and silver ores.

REFERENCES: Ferguson, *Bibliotheca Chemica*, 1906: 1, 440. • Hoover Collection: no. 459. • LKG: XIII 173.

**2525. — German, 1753** [Part 1].

J.G. Jugel's mineralischer Hauptschlüssel, das ist : sonderbare Entdeckung aller seiner geheimen Röst- und Schmelz - Arbeiten, dem edlen Bergbau zum Besten also beschrieben ... Zittau und Leipzig, Verlegts Johann Jacob Schöps, 1753.

8°: [16], (including frontispiece), 175, [1] p., engraved frontispiece, 3 plates.

RARE. This work is devoted to a description of metallurgical processes including smelting and assaying of various ores and metals (especially gold and silver). It contains some theoretical speculation as to what is happening when the material is heated, but it is essentially a practical how-to guide on the matters it covers. A second part was published as the *Höchstnüsslicher und gründlicher Unterricht* (1754).

REFERENCES: Hoover Collection: no. 461.

**2526. — German, 1754** [Part 2].

Johann Gottfried Jugels | höchstnüsslicher und gründlicher | Unterricht | des annoch geheimen | Röst= Schmelz= und | Probier=Wesens; | Dem edlen Berg=Bau zu Liebe | aufgeseßet, | und um besserer Deutlichkeit willen | in | Frag und Antwort | verfasst, | als zweiter Theil | des Mineralischen Haupt=Schlüssels | herausgegeben.

[rule] | Zittau und Leipzig, | Verlegts Johann Jacob Schöps, 1754.

8°: \*8 A-N<sup>8</sup> O<sup>7</sup>; 69ℓ.; [16], [1]-222 p.

CONTENTS: [2 pgs], Title page, verso blank.; [10 pgs], "Vorrede."—dated February 1753.; [4 pgs], "Inhalt."; [1]-222, Text.

RARE. An instructional manual giving information on the roasting, smelting and assaying of metallic ores. The text is written in the form of a question and answer format and was published as a second part to the author's *Mineralischen Haupt=Schlüssels* (1753).

REFERENCES: Hoover Collection: no. 459. • LKG: XIII 173.

**2527. — German, 1754** [First edition].

Gründliche Nachricht von dem wahren metallischen Saamen, oder Prima Materia Metallorum, wie aus derselbe das gantze mineralische Reich seinen Ursprung hat. Nach eigener Erfahrung geprüft, durch ordentliche Würckungen der Natur bestätigt, und auf eine vorher noch unbekannte Art der Welt mitgetheilet, durch Johann Gottfried Jugel. Philos. Cult. Leipzig und Zittau, Verlegts Johann Jacob Schöps, Buchhändler. 1754.

8°: [8], 184 p.

RARE. In this work, Jugel examines the possible origins of minerals.

REFERENCES: Ferguson, *Bibliotheca Chemica*, 1906: 1, 441. • LKG: XIII 173. • Ward & Carozzi, *Geology Emerging*, 1984: no. 1225.

**2528. 2nd edition, 1787:** De prima materia metallorum oder gründliche Nachricht vom wahren metallischen Saamen, und vom Ursprunge des ganzen Mineralreichs. Nach eignen Erfahrungen geprüft, durch ordentliche Wirkungen der Natur bestätigt, und auf eine vorher noch unbekannte Art der Welt mitgetheilt von Johann Gottfried Jugel. Neue mit einigen Anmerkungen verm. und verb. Auflage. Zittau und Leipzig, Bey Johann David Schöps, 1787.

8°: viii, 100 p. RARE.

REFERENCES: LKG: XIII 173.

**2529. — German, 1789.**

Entdeckung der verborgenen Schatzkammer der Natur; oder desselben ober- und unterirdische Reise durch das Mineralreich, um sowohl auf der Oberfläche als in den unterirdischen Kluften unseres mineralischen Erdbidens, die sich indiesem oder auf jener findende Metalle, Mineralia, Gesteine, den Sand und Letten aufzusuchen und dieser minralischen Kreaturen innere Wesenheit erkennen zu lernen, als auch ihre richtige Genealogie und ihr achtes Geburtsregister aufzufinden. Nebst einem Anhang von den reichen Silberberhwerken, welche von jeher in dem Kursachsicchen Erzgebirge sind betreiben worden, worin die Anmerkung, wegen Eroffnung verschiedener Bergwerke in gewinnen Perioden, von a. 745 bis 1570 sehr merkwürdig ist. Berlin und Leipzig, 1789.

8°: 335 p.



## JUGEL

RARE. In this work, Jugel takes the reader on an underground journey in to the realm of minerals, including descriptions of the creatures, and the various minerals, metals, rocks, stones, and sand. He also includes an appendix on silver mining and a history of mining techniques.

REFERENCES: *Allgemeine Literatur-Zeitung*: 3 (1789), 182. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 29. • LKG: XIV 222.

### 2530. — German, 1743.

Philosophische Unterredung zwischen dem Fliegenden Mercurium und einem gemeinen Schmelztzer, worinnen gantz vollkommen und gründlich gezeigt und gewiesen wird, das sonst noch nie entdeckte und zu der grossen Welt Oeconomie höchst benöthigte wahre und natürliche geheime Röst- und Schmelzt-Wesen, alle flüchtige und subtil-Metallhaltige Ertz- und BergArten, den erfordernden Umständen nach, mit ihren dazu gehörigen Beschickungen zu zeitigen und figiren; Nebst einem vollkommenen und gründlichen Bericht der Natur und Creatur, wie solche nach dem irrdischen Verlauff aller Zeiten durch den Geist ihrer Geburth wieder aufgelöset, und in ihr erstes Wesen gelangen mögen, zu einem au enscheinlichen Beweirs in Regnum Minerale ausgeführet, welche geheime Wahrheiten durch dem Grund der Natur noch niemahls so deutlich sind erfunden und an das Licht gestellt worden. Wobey auch ferner mit angeführet wird, wie die itzigen Röst- und Schmelzt- Arbeiten auf denen meisten Haupt-Gebürgen Teutschlandes eingerichtet und getrieben werden. Zur gründlichen Erkäntnirs der wahren Natur, zu Erforschung ihrer Heimlichkeiten, und Erhebung des edlen Bergbaues in allen Landen, durch eigene Experimente entdeckt von Johann Gottfried Jugel. Berlin zu finden bey Johann Andreas Rüdigers, privil. Buchhändl., 1743.

8°: [1-9] frontispiece included, 10-254, [2] blank p., title red and black.

RARE. On smelting and metallurgy.

REFERENCES: Ferguson, *Bibliotheca Chemica*, 1906: 1, 442.

### 2531. — German, 1764.

Dicta Philosophica, oder General-Physik dieser sichtbaren Welt, von der Generation aller Dinge, aus der wahren Prima Materia, besonders aber der Geschöpfe im mineralischen Reich; der Creaturen Auf- und Untergang, wie auch deren Verherrlichung daraus zu erkennen; den Grund zu den höchsten Geheimnissen der Natur zu erlangen; alle geheime Wirkungen offenherzig zu betrachten, dass dadurch der so lang verborgene Nutzen mit Augen zu sehen und zu begreifen. Nach einer sechs und zwanzig

jährigen Untersuchung, aus lauter natürlichen Erfahrungen dargestellt, von Johann Gottfried Jugel, der geheimen Naturwissenschaften Cultore. Bresslau, bey Johann Ernst Meyer, 1764.

8°: 316, [2], [2] blank p.

RARE. Jugel was a director of mining activities in Prussia and gathered a considerable reputation for his knowledge of the world of science and nature, especially chemistry, mineralogy, mining, and iron making. All his life had been devoted to the investigation of nature, and in some 36 books and papers he had recorded his views in the mathematical, mining, and occult sciences. On account of his reputed knowledge of chemistry, he became a member of the Rosicrucian Society. He was, however, attacked by Kopp, who calls his work a 'coagulum of nonsense' and considers that he has given proof that the science of the later Rosicrucians was 'pseudo-science of the most contemptible kind.'

REFERENCES: Caillet, *Manuel*, 1912: no. 5675. • Ferguson, *Bibliotheca Chemica*, 1906: 1, 440. • Kopp, *Geschichte der Chemie*, 1843-7: 2, p. 253-257.

### 2532. — German, 1766.

Johann Gottfried Jugels | freyentdeckte | Experimental= | Chymie, | oder | Versuch | den Grund natürlicher Geheimnisse durch die | Anatomie und Zerlegungskunst, in dem astralischen, ani= | malischen, vegetabilischen und mineralischen Reiche | durch | systematische Grundsätze, Lehrsätze, Beweise, Gegen= | sätze, Gegenbeweise, Anmerkungen, Versuche, Erfahrungen | und darauf folgende Schlüsse, | nebst | dem deutlichen Naturbegriffe | der metallischen Generation, | wie solche täglich in der Erde getrieben wird, | durch | eine lange Untersuchung, also vorzustellen, daß es ein jeder | Naturforschender einsehen und erkennen kann; | In zwey Theile | abgefasset, | und zu jedermanns Nutzen und Vergnügen dem | Drucke überlassen. | [rule] | Leipzig, | verlegt Johann Paul Krauß, Buchhändler, 1766.

8°: [14], 1-208, [209-214], 215-368 p., frontispiece: Author's likeness, and mining scene below it, pp. 209-214 contain the *Vorbericht* of part 2, and are not numbered. RARE.

REFERENCES: Duveen, *Bibliotheca Alchemica et Chemica*, 1965: p. 313. • Ferguson, *Bibliotheca Chemica*, 1906: 1, 441. • Neu, *Chemical, Medical & Pharmaceutical Books*, 1965: no. 2094.

## Kunst-Stücke

### 2533. — German, 1754 [First edition].

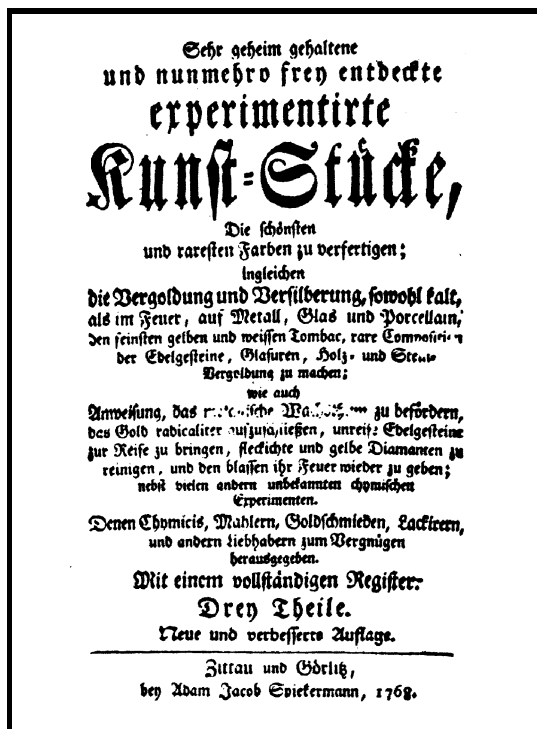
Sehr geheim gehaltene und nunmehr frey entdeckte experimentirte Kunst-Stücke die schönsten und raresten Farben zu verfertigen; ingeleichen die Vergoldung und Versilberung, sowohl kalt, als im Feuer, auf Metall, Glas und Porcellain, den fein-

sten gelben und weissen Tombac, rare Compositionen der Edelgesteine, Glasuren, Holz- und Stein-Vergoldung zu machen; wie auch Anweisung, das metallische Wachsthum zu befördern, das Gold radicaliter aufzuschliessen, unreife Edelgesteine zur Reife zu bringen, fleckichte und gelbe Diamanten zu reinigen, und den blassen ihr Feuer wieder zu geben; nebst vielen andern unbekannten chemischen Experimenten, und geheimen Naturarbeiten. Den Chemicis, Mahlern, Goldschmieden, Lackirern, und andern Natur- und Kunst-Liebhabern zum Nutzen und Vergnügen herausgegeben. Mit einem vollständigen Register. Zwey Theile. Neueste und durchgängig verbesserte und vermehrte Auflage. Zittau und Leipzig, 1754.

8°: 131 p.

RARE. Describes the procedures for plating objects in gold, silver, and other metals, and using mineral pigments and glazes to decorate metal, glass, and porcelain. In the eighteenth century such information was considered very secret. Jugel also includes descriptions of a number of chemical experiments that involved mineral analysis.

REFERENCES: NUC.



EXPERIMENTIRTE KUNST-STÜCKE, 1768

2534. 2nd edition, 1768: Sehr geheim gehaltene | und nunmehr frey entdeckte | experimentirte | Kunst-Stücke, | Die schönsten | und raresten Farben zu verfertigen; | Ingleichen | die Vergoldung und Versilberung, sowohl kalt,

| als im Feuer, auf Metall, Glas und Porcellain, | den feinsten gelben und weissen Tombac, rare Compositionen | der Edelgesteine, Glasuren, Holz- und Stein- | Vergoldung zu machen; | wie auch | Anweisung, das metallische Wachsthum zu befördern, | das Gold radicaliter aufzuschliessen, unreife, Edelgesteine | zur Reife zu bringen, fleckichte und gelbe Diamanten zu | reinigen, und den blassen ihr Feuer wieder zu geben; | nebst vielen andern unbekannten chymischen | Experimenten. | Den Chymicis, Mahlern, Goldschmieden, Lackirern, | und andern Liebhabern zum Nutzen und Vergnügen herausgegeben. | Mit einem vollständigen Register: | Drey Theile. | Neue und verbesserte Auflage. | [rule] | Zittau und Görlitz, | bey Adam Jacob Spiekermann, 1768.

3 parts. RARE.

REFERENCES: NUC.

2535. Another edition, 1789: Sehr geheim gehaltene und nunmehr frey entdeckte experimentirte Kunst- Stücke die schönsten und raresten Farben zu verfertigen; ingleichen die Vergoldung und Versilberung, sowohl kalt, als im Feuer, auf Metall, Glas und Porcellain, den feinsten gelben und weissen Tombac, rare Compositionen der Edelgesteine, Glasuren, Holz- und Stein-Vergoldung zu machen; wie auch Anweisung, das metallische Wachsthum zu befördern, das Gold radicaliter aufzuschliessen, unreife Edelgesteine zur Reife zu bringen, fleckichte und gelbe Diamanten zu reinigen, und den blassen ihr Feuer wieder zu geben; nebst vielen andern unbekannten chemischen Experimenten, und geheimen Naturarbeiten. Den Chemicis, Mahlern, Goldschmieden, Lackirern, und andern Natur- und Kunst-Liebhabern zum Nutzen und Vergnügen herausgegeben. Mit einem vollständigen Register. Zwey Theile. Neueste und durchgängig verbesserte und vermehrte Auflage. Zittau und Leipzig, bey Johann David Schöps, 1789.

2 parts. [Part 1] 8°: [10], 288 p. [Part 2] 8°: 306, [17], [3] blank p. RARE.

REFERENCES: Ferguson, *Bibliotheca Chemica*, 1906: 1, 441-42.

2536. — German, 1783.

Johann Gottfried Jugels *Physica-Subterranea*, oder Bewegungskraft der elementischen Wirkungen, die auf und in unserm mineralischen Erdboden verichtet werden. Ein Opus aller seiner gefundenen geheimen Einsichten in das dreyfache grofse Naturreich, das Unsichtbare sichtbar, und das Umbegreifliche begreiflich und vorstellig zu machen, welches er nach einer 46jährigen Naturforschung, als ein Freund aller Menschen, also aufrichtig mittheilet. Berlin und Leipzig: bey George Jacob Decker, 1783.

8°: [i]-xvi, 552 p.

RARE. Jugel in his *Physica-Subterranea* describes the elements that come together to form mineralized ground. It is he claims a work that divulges all the secrets of the three realms of nature.

REFERENCES: Ferguson, *Bibliotheca Chemica*, 1906: 1, 442. • Hoover Collection: no. 462.

JULIA DE FONTENELLE, Jean Sebastian Eugène. (BORN: 1790; DIED: 1842) *French pharmacist & chemist*.

REFERENCES: ABF: I 553, 363-369; II 364, 319. • Dezobry, *Dictionnaire de Biographie*, 1889. • Feller, *Biographie Universelle*, 1851. • Lorenz, *Catalogue Général*, 1869-1945. • *Nouvelle Biographie Générale* (Hoefer). • Poggendorff: 1, col. 1209. • WBI.

## JUNGIIUS

Manuel de Minéralogie ... Par M. Blondeau ... entièrement refondue ... par ... Julia-Fontenelle, &c. (Paris, 1827, and other editions).

See: Blondeau, Charles Félix.



JOHANN HEINRICH JUNG

**JUNG-STILLING, Johann Heinrich.** (BORN: Nassau, Prussia, Germany, 1711; DIED: 1786) *German mining official.*

REFERENCES: DBA: II 665, 376-378. • LKG: 292. • Merk, G., *Oberbergmeister Johann Heinrich Jung. Ein Lebensbild.* Kreuztal 1989. [ISBN: 3-925498-32-X]. • WBI.

**2537. — Latin, 1772** [Dissertation].  
Specimen de Historia Martis Nassovico Siegenensis. Argentorati, [1772.]  
4°: 52 p.

RARE. Medical dissertation, University of Strassburg, presented 24 March 1772.

REFERENCES: BL: [B.571.(8.)]. • LKG: XIV 270.

**2538. — Latin, 1793** [Dissertation].  
Auctoritate ... Domini Gulielmi IX. Hassiæ Landgravii ... futuri Prorektoris inaugurationi ... celebrandæ ... invitat Prorektor ... J.H. Jung ... de Originibus Montium et Venarum Metallicarum pauca Dissertunt. Marburgi, [1793.]

4°: 46 p. RARE.

REFERENCES: BL: [B.382.(2.)]. • LKG: XIII 198.

**JUNG, Johann Heinrich.** (BORN: 1715; DIED: 1799) *German librarian.*

REFERENCES: ADB. • Baur, *Allgemeines historisches Handwörterbuch*, 1803. • DBA: I 614, 237-264. • Hamberger & Meusel, *Gelehrte Teutschland*, 1796-1834. • Meusel, *Verstorbenen Teutschen Schriftsteller*, 1802-16. • WBI.

**2539. — Latin, 1743.**

Ioannis Henrici Iungii De iure salinarum tum veteri tum hodierno liber singularis. Accedit Casparis Sagittarii ... Dissertatio De originibus ac incrementis sulciæ Luneburgensis recognita aucta et con-

tinuata nec non Sylloge documentorum plurimam parte. Gottingæ, Apud I.C.L. Schultzium ..., 1743.

4°: [18], 252, 223, [11] p., 2 plates (one folded), illus.

RARE. The dissertation by Sagittarius' was published separately in 1675 under title: *Origines ac incrementa sulciæ Luneburgensis.*

REFERENCES: BL. • Hoover Collection: no. 464.

**JUNGIIUS (Jung), Joachim.** (BORN: Lubeck, Germany, 22 October 1587; DIED: Hamburg, Germany, 22/23 September 1657) *German physician & naturalist.*

Jungius was educated in philosophy at the University of Giessen and received in 1618 his M.D. from Padua, Italy. He was appointed professor of mathematics at the University of Giessen where he remained from 1608 to 1614. Subsequently, Jungius became professor of medicine at the Universities of Rostock (1624-25) and Helmstadt (1625-26). Appointed as Rector of the Hamburg Gymnasium (1628-29). Jungius founded in 1622 in Rostock the short lived philosophical society Societas Ereunetica. He was an early champion of the atomic theory and developed a method of plant classification based on genus and species which foreshadowed Linneaus.

REFERENCES: DBA: I 614, 210-222; II 665, 366-367. • Hirsch, *Biographisches Lexikon*, 1884-8. • LKG: 292. • Poggendorff: I, col. 1211. • WBI. • *World Who's Who in Science*: 898.

**2540. — Latin, 1689.**

Joachimi Jungii, Lub., Med. Doct. | Giessæ & Ros-  
tochii Mathematicum; Helmæst. Med. PP.; | Ham-  
burgi Scholæ Gymnasiiue Rectoris, Logicaeque &  
Physicæ | Professoris; jam 1667 23 Sep. pie de-  
functi schedæ- | rum fasciculus (32), inscriptus |  
Mineralia, | Concinnari in systema cœptus à |  
Christiano Buncchio, Med. D. & Reip. Hamb. |  
Physico, utque ab eo mox defuncto relictus erat,  
ita | editus, recensente | Johanne Vageto, Log.  
& Metaph. in Gymn. | Hamb. P.P. | cujus Ad-  
monitiones quædam accedunt Scedarum | Jun-  
gianarum indolem exhibentes | cognoscendam. |  
[ornament] | Hamburgi, | [rule] | Typis Henningi  
Brendekii, 1689.

4°: \*2 A-Oo4; 174ℓ.; [2], [1]-343 p., one folding plate.

CONTENTS: [2 pgs], Title page, verso blank.; [2 pgs], Dedication to Johanni Garmero, signed Johann Vagetus, 9 April 1689.; [1]-343, Text.; [1 pg], Blank.

VERY RARE. Edited by Christian Bunc [ - 1659] and Johann Vaget [1633-1691]. During his lifetime Jungius published little, but left directions in his will that his very large collection of papers (which were difficult to read) should be arranged and published, and a bequest was left for this undertaking. Among these was the *Mineralia* that consists primarily of excerpts from printed books and criticisms of Agricola principally on philosophical points. Jungius also refutes Agricola's classification of minerals into earths, concrete juices, stones and metals, substituting a system of metals, sulfur, salts, and stones. However, Jungius'

criticism of contemporary mineral chemistry and his support of an atomic theory was an important step in the development of chemical theory comparable to Agricola's work with respect to the physical theory of minerals.

REFERENCES: BL: [990.h.3.]. • DSB: 7, 193-7 [by H. Kangro]. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 24. • LKG: XII 4 & XVI 60. • Multhaus, *Beginning of Mineralogical Chemistry*, 1958. • Partington, *History of Chemistry*, 1961-70: 2, 415-22. • VD17: 12:653127W.

**JUSTI, Johann Heinrich Gottlob von.** (BORN: Brücken, Thüringen, Germany, 1720; DIED: Küstrin, Germany, 20 July 1771) *German mining expert.*

Justi, a professor of cameralist studies at Vienna and Göttingen, also served in the Prussian mining administration and as police commissioner at Göttingen.

REFERENCES: ADB: 14, 747. • DBA: I 617, 16-55; II 668, 120-131. • DSB: 7, 202. • Hirsching, *Historisch-literarisches Handbuch*, 1794-1815. • Jöcher, *Gelehrten-Lexikon, Supplement*. • Meusel, *Verstorbenen Deutschen Schriftsteller*, 1802-16. • NDB: 10, 707-9 [by E. Dittrich]. • Poggendorff: 1, cols. 1214-5. • Sarjeant, *Geologists*, 1980. • Schrader, *Biographisch Lexicon der Tierärzte*, 1863. • WBI.

**2541. — German, 1754-8.**

Herrn Joh. Heinrichs Gottlobs von Justi Neue Wahrheiten zum Vortheil der Naturkunde und des gesellschaftlichen Lebens der Menschen von Johann Heinrich Gottlob von Justi ... Leipzig, Breitkopf, 1754-58.

6 parts in one volume. 8°: [16], 738, [14] p.

RARE. In this discussion of economics of natural resources, Justi devotes a large section to mining and mineral resources.

REFERENCES: LKG: VI 29. • NUC: 287, 147-51 [NJ 0202545].

**2542. Continuation, 1759-61:** Johann Heinrich Gottlobs von Justi fortgesetzte Bemühungen zum Vortheil der Naturkunde und des gesellschaftlichen Lebens der Menschen. Berlin & Stettin, Rüdigers, 1759-1761.

4 parts in one volume. 8°: [12], 584 p.

RARE. In this continuation of the author's discussion of economics of natural resources, Justi again devotes a large section to mining and mineral resources.

REFERENCES: LKG: VI 30. • NUC: 287, 147-51 [NJ 0202521].

**2543. — German, 1757 [First edition].**

Johann Heinrich Gottlobs von Justi | [...3 lines of titles and memberships...] | Grundriß | des gesamten | Mineralreiches | worinnen | alle Fossilien | in einem, | ihren wesentlichen Beschaffenheiten | gemäßen, Zusammenhänge | vorgestellt und beschrieben | werden. | [ornament] | Göttingen | Im Verlag der Wittve Bandenhöck | 1757.

8°:  $\pi^8$  A-P<sup>8</sup>; 128 $\ell$ .; [16], [1]-232, [8] p. PAGE SIZE: 214 x 140 mm. uncut.

CONTENTS: [2 pgs], Title page, verso blank.; [6 pgs], Dedication, signed Johann Heinrich Gottlob von Justi, 1 October 1756.; [8 pgs], "Vorbericht.;" [1]-232, Text.; [8 pgs], "Register."

VERY SCARCE. The work consists of 6 sections: Von denen Metallen; Von denen Malbmetallen; Von den Minern des brennlichen Wesens; Von denen Salzen; Von



GRUNDRIS, 1757

Versteinerungen und figurirten mineralischen Körpern; Von denen Steinen und Erden.

REFERENCES: *Berlinische Sammlungen*: 3, 280. • BMC: 2, 953. • *Freilich Sale Catalog*: no. 299. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 50-1. • Hoover Collection: no. 466. • LKG: XII 51. • NUC: 287, 147-51 [NJ 0202528]. • Roller & Goodman, *Catalogue*, 1976. • Ward & Carozzi, *Geology Emerging*, 1984: no. 1231.

**2544. 2nd edition, 1765:** Grundriß des gesamten mineralreichs worinnen alle Fossilien in einem, ihrem wesentlichen Beschaffenheiten gemässen, Zusammenhänge vorgestellt und beschreiben werden. Zweite Auflage. Göttingen, im Verlag der Witwe Vandenhöck, 1765.

8°: [16], 232, [8] p.

VERY SCARCE. A mere reprint of the 1757 edition that lacks any improvements in its mineral system.

REFERENCES: *Berlinische Sammlungen*: 3, 280 & 546. • BL: [987.i.10.]. • BMC: 2, 953. • *Commentarii Lipsiæ*: 7, 343. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 51. • *Kartheusers vermischte Schriften*: pt. 4, 312. • LKG: XII 51. • NUC: 287, 147-51 [NJ 0202529]. • *Vogel's Neue Medicinische Bibliothek*: 3, 115-130. • Ward & Carozzi, *Geology Emerging*, 1984.

**2545. — German, 1771.**

Johann Heinrich Gottlob von Justi, | Königl. Berghauptmanns, | Geschichte | des | Erd=Cörpers | aus seinen äusserlichen | und innerlichen Beschaffenheiten | dergeleitet und erwiesen. | [vignette] | Berlin, 1771. | Bey Christian Friedrich Himbürg.

8°: a<sup>8</sup> b<sup>4</sup> A-Bb<sup>8</sup> Cc<sup>7</sup>; 218 $\ell$ .; [i]-xviii, [6], [1]-386, [28] p.

CONTENTS: [i-ii], Title page, verso blank.; iii-xviii,

## KALM

"Vorrede.": [4 pgs], "Vorrede.": [1 pg], Sectional title page, "Geschichte | des | Erd-Cörpers.": [1 pg], Blank.; [1]-386, Text.; [27 p/=Bb2r-Cc7r], "Register.": [1 pg/=Cc7v], "Druckfehler."

VERY SCARCE. The text which is divided into 13 sections gives a geological history of earth with discussions of mountains, rivers, oceans, deserts, etc.

REFERENCES: LKG: XIII 119. • NUC: 287, 147-51 [0202525]. • Roller & Goodman, *Catalogue*, 1976.

### 2546. — German, 1776.

Abhandlung über die Frage: Wie die Kupfererzte mit Ersparung der Zeit und der Kohlen auf den Kupferhütten besser bearbeitet werden können. Nebst einigen andern merkwürdigen kleinen Schriften, die Chymie und Berghütten-Sachen betreffend. Leipzig, P.G. Kummer, 1776.

8°: [4], 92 p.

VERY SCARCE. Prepared in 1769 this work was posthumously published. It is concerned with improved techniques, the extracting and refining of copper. The demand for copper during the 18th century was very great and yet the process of extraction consisted of as many as fourteen stages and took up to eighteen months.

REFERENCES: NUC: [no copy listed].

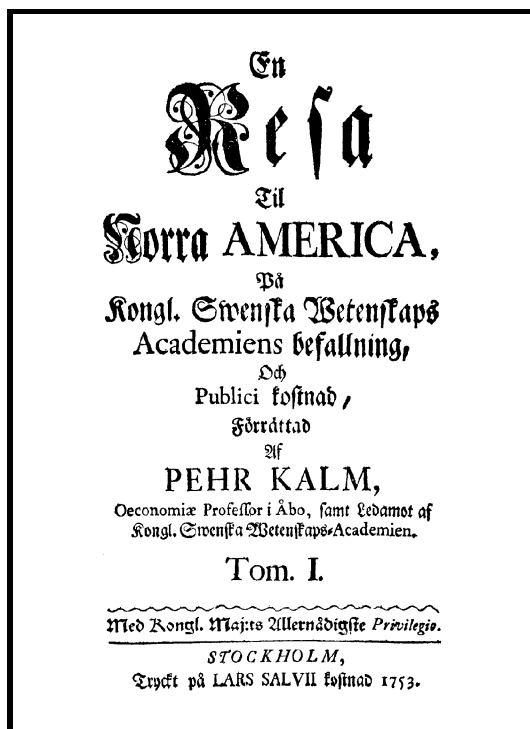
**KALM, Pehr.** (BORN: Angermanie, Finland, March 1716; DIED: Uppsala, Sweden, 16 November 1779) *Swedish traveler, botanist & geologist.*

Kalm was born the son of a Lutheran minister. In 1735, he was admitted to Åbo University (Finland) and then to Uppsala University (Sweden) in 1740. The following year Kalm became a student and friend of Carl von Linné (Linnaeus), the famous naturalist. Under the latter's influence Kalm developed a profound interest in the application of botany to agricultural and industrial problems. In 1747 he was designated by the Swedish Academy of Sciences to travel to North America to collect seeds of plants that might prove useful for feeding people or animals, or have some other industrial, domestic or medical purpose. Kalm remained in America, mainly in New England, from 1748 to 1751. After his return to Sweden, Kalm became an instructor at Åbo University, where he remained until his death.

REFERENCES: *Biographiskt Lexicon*. • DBA: II 676, 202. • DSB: 7, 210-1. • *Finsk Biografisk Handbok*: 1, cols. 1106-9. • *ISIS*, 1913-65: 2, 2. • Kalm, P., "Kalm som Student i Uppsala och Lärjunge till Linné åren, 1741-1747." Föredrag ... den 27 maj, 1923 av Johan Markus Hulth. *Svenska Linné-Sällskapet. Årsskrift*, Årg. 7 (1924), 39-49. • Lucas, J., *Kalm's Account of his visit to England on his way to America in 1748*. Translated [from *En Resa til Norra America*, Stockholm 1753-61, with Life of Kalm, Preface and many notes]. London; New York, Macmillan & Co, 1892. xvi, 480 p., 3 plates, 2 maps, illus. • Nordenskiöld, E., "Per Kalm och hans amerikanska resa," *Finsk Tidskrift för vittherhet, vetenskap, konst och politik*, 109 (1908), Heft 3, 121-34. • Poggendorff: 1, col. 1221. • Sarjeant, *Geologists*, 1980: 2, 1416-7 & Suppl. 1 (1986), 1, 539-40. • SBA: Scandinavian Biographical Archive: B-146, 233-255. • Schauman, G., "Ett minne af Linné och hans förhållande till Kalm," *Finsk Tidskrift för Vittherhet, Vetenskap, Konst och Politik*, 62 (Maj, 1907), Heft 5, 372-375. • WBI. • *World Who's Who in Science*: 902.

### 2547. — Swedish, 1753-61 [First edition].

En | Resa | Til | Norra America, | På | Kongl.



RESA TIL NORRA AMERICA, 1753

Svenska Wetenskaps | Academiens befallning, | Och Publici Kontnad, | Förrättad | Af | Pehr Kalm, | [...2 lines of titles and memberships...] | Tom. I. | [wavy rule] | Med Kongl. Maj:ts Allernådigste Privilegia. | [rule] | Stockholm, | Tryckt på Lars Salvii kostnad 1753 [-1761].

3 vols. [VOL 1: 1753] 8°: 484 p. [VOL 2: 1756] 8°: 526 p. [VOL 3: 1761] 8°: 538 p.

VERY SCARCE. This work describes Kalm's extensive travels in northern Europe and North America taken between 1747 and 1749. The first two volumes treat the author's travels in Norway and England, while the third contains observations on Canada and New England. The voyage was undertaken at the request of the Swedish government for the purpose of discovering whether any North American plants could be introduced advantageously into Sweden. Kalm being one of the ablest naturalists of his time, however, includes numerous observations on the landscape, mountains, rivers, geology and mineralogy of the regions visited.

Pehr Kalm's journey to North America originated in a suggestion to Linnaeus by a member of the Swedish Academy of Sciences. It was proposed that a collecting trip be made to regions lying in about the same latitudes as Sweden, with the purpose of discovering new plants of economic and medicinal value. Linnaeus enthusiastically supported the project. He was particularly interested in bringing the *Morus rubra*,

a kind of mulberry tree, from America to Sweden so that a domestic silk industry could be started. On Linnaeus' recommendation the Academy approved the trip, selected Pehr Kalm as its emissary and the necessary funds were provided. Kalm arrived in Philadelphia in 1748 and after numerous excursions in the districts around that city and New York, he set out for Canada in 1749. He travelled by way of Albany and Saratoga and eventually reached Montreal, Three Rivers and Quebec. The next year he visited Lake Ontario and Niagara Falls. He returned to Sweden in July of 1751 bringing with him a large collection of plant specimens and seeds which he considered might be usefully grown in Sweden. His collections are preserved in the Botanical Museum at Uppsala. Kalm's account of his travels, *En resa till Norra America*, containing detailed descriptions of conditions in the new country, became very popular and was translated into German, French, English (three editions), and Dutch.

REFERENCES: BL: [Mic.F.232]. • Buckman, *Catalog of a Linnaeus Exhibition*, 1957: no. 43. • LKG: XIV 900. • Lucas, J., *Kalm's Account of his visit to England on his way to America in 1748*. Translated [from *En Resa til Norra America*, Stockholm 1753-61, with Life of Kalm, Preface and many notes]. London; New York, Macmillan & Co, 1892. xvi, 480 p., 3 plates, 2 maps, illus. • Nordenskiöld, E., "Per Kalm och hans amerikanska resa," *Finsk Tidskrift för vitterhet, vetenskap, konst och politik*, 109 (1908), Heft 3, 121-34. • Pritzl, *Thesaurus Literaturæ Botanicae*, 1871-3: no. 4572. • Sabin, *Dictionary*, 1868-1936: no. 36986.

### Translations

**2548. German, 1754-64:** Reise nach dem nordlichen America, welche auf Befehl der Königlichen Schwedischen Akademie der Wissenschaften, und auf allgemeine Kosten, von Peter Kalm ... ist verrichtet worden. Leipzig, Gottfried Kiesewetter; Göttingen, W.A. Vandenhoeck, 1754-64.

3 vols. [VOL 1] 8°: [18], [1]-568 p. [VOL 2] 8°: [1]-592 p. [VOL 3] 8°: [1]-648 p., 9 plates.

VERY SCARCE. German edition, translated by Johann Philippo and Johan Andrea Murray from *En resa til Norra America* (1753-61).

REFERENCES: BL: [Mic.F.232]. • LKG: XIV 901a. • Sabin, *Dictionary*, 1868-1936: no. 36987.

**2549. English, First edition, 1770-1:** Travels | Into | North America; | Containing | Its Natural History, and | A circumstantial Account of its Plantations | and Agriculture in general, | with the | Civil, Ecclesiastical And Commercial | State Of The Country, | The manners of the inhabitants, and several curious | and important remarks on various Subjects. | By Peter Kalm, [...2 lines of titles and memberships...] | Translated Into English [II: English] | By John Reinhold [III: Reinold] Forster, F.A.S. | Enriched wit a Map, several Cuts, for Illustration of | Natural History, and some additional Notes. | [rule] | Vol. I. [II.-III.] | [double rule] | Warrington: | Printed by William Eyres. | MDCCLXX. [Imprint in II-III: London: | Printed for the Editor; | And Sold by T. Lowndes, in Fleetstreet. | MDCCLXXI.]

3 vols. [VOL 1: 1770] 8°: a<sup>8</sup> A-Bb<sup>8</sup> χ<sup>1</sup>; 212ℓ.; [i]-xvi, [8], [1]-400 p., 2 plates. [VOL 2: 1771] 8°: A-Y<sup>8</sup>; 180ℓ.; [10], 3-352 p., 3 plates. [VOL 3: 1771] 8°: a<sup>4</sup> A-U<sup>8</sup> X<sup>2</sup>; 168ℓ.; [i]-viii, [1]-310, [14] p., large folding map (showing New England, signed J. Gibson Sculp).

VERY SCARCE. Translated by JOHANN REINHOLD FORSTER from *En resa til Norra America* (1753-61). Volume one published at Warrington, printed by W. Eyres. This translation omits a great number of details, and everything relating to England. It contains drawings of birds and

animals not found in the original.

REFERENCES: Hunt Botanical Catalog: no. 616. • Sabin, *Dictionary*, 1868-1936: no. 36989.

**2550. English, 2nd edition, 1772:** Travels in North America; containing its natural history, and a circumstantial account of its plantations and agriculture in general, with the civil, ecclesiastical and commercial state of the country, the manners of the inhabitants, and several curious and important remarks on various subjects. By Peter Kalm ... Translated into English by John Reinhold Forster ... Second edition ... London: T. Lowndes, 1772.

2 vols. [VOL 1] 8°: [i]-iv, iii-xii, [1]-414 p. [VOL 2] 8°: [i]-iv, [1]-423 p., 6 plates and map.

VERY SCARCE. Translated by JOHANN REINHOLD FORSTER from *En resa til Norra America* (1753-61). The portion of the original work dealing with England has been omitted from this translation.

REFERENCES: LKG: XIV 901a. • Sabin, *Dictionary*, 1868-1936: no. 36989.

**2551. Dutch, 1772:** Reis door Noord Amerika, gedaan door den heer Pieter Kalm ... Vercierd met kopern platen ... Te Utrecht, J. van Schoonhoven en comp., 1772.

2 vols. [VOL 1] 4°: [22], [1]-223 p., map, 3 plates. Engraved title page. [VOL 2] 4°: [6], [1]-240, [8] p., one plate.

VERY SCARCE. Dutch edition, translated from *En Resa til Norra America* (1753-61). The portion relating to England has been omitted. This translation is considered to be superior to the Swedish and English renderings.

REFERENCES: BL: [Mic.F.232]. • LKG: XIV 901a. • Sabin, *Dictionary*, 1868-1936: no. 36988.

### Dissertations

**2552. Dissertation, 1754:** Resp. Jeremias Wallenius ... Exercitum Academicum de Ortu Petrificationum ... Præs. P. Kalm, ... Aboæ, 1754.

4°: 1-22 p.

VERY SCARCE. Dissertation – Jeremias Wallenius, respondent.

Jeremias Wallenius. (BORN: ; DIED: ) *Swedish*.

[ { BIOGRAPHY NEEDED } ]

REFERENCES: BL: [B.394.(20.)]. • LKG: XVII 39. (Wallenius)

**2553. Dissertation, 1756:** D.D. | Dissertatio Mineralogica, | Ollares | In | Fennia Repertos | Delineans, | Quam | Suffrag. Ampdiss. Ord. Philosoph. In Re- | gia Acad. Aborensi, | Præside | Petro Kalm, | [2 lines of titles and memberships] | Johannes Fridericus Müller, | Ostrorotniensis, | In Auditorio Majori Die XXIX, Junii | Anni MDCCLVI. | H.P.M.S. | [ornate rule] | Aboæ, Impressit Direct. & Typogr. Reg. Magn. Duc. | Finland, Jacob Merckell.

4°: 1-21 p.

VERY SCARCE. Dissertation – Johan Friderik Müller, respondent. Concerns soapstone.

Johan Fridric Müller. (BORN: ; DIED: ) *Swedish*.

[ { BIOGRAPHY NEEDED } ]

REFERENCES: BL: [B.234.(4.)]. • LKG: XIV 790. (Müller)

**2554. Dissertation, 1756:** J.H.W.N. | Några kännemärcken | Til | Nyttiga Mineraliers | Eller | Jord= och Bårgarters | Upfinnande/ | Med | Wederbörandes tilstånd | Oeconomiae Professorens och Kongl. Swenska | Wettenskaps Academiens Ledamots | samt. p.t. Acad. Reot. | Hr. Pehr Kalms | Inseende, | Som et Academist Prof./ til all mån grayskning fram= | gifne uti Åbo Academies öfre ??? för mid= | dagen den 5. Julii 1756. | Af | Erik Hægglund, | Öfterbotninge. | [rule] | Åbo, Tryckt

## KANT

hos direct. och Kongl. Boker i Stor=För= | stendömer Finland/ Jacob Merckell.

4°: [4], [1]-24 p.

VERY SCARCE. Dissertation – Erik Haeggglund, respondent. Concerns determinative mineralogy.

**Erik Haeggglund.** (BORN: ; DIED: ) . No information found.

REFERENCES: BL: [B.240.(1.)]. • Laitakari, *Geologische Bibliographie Finnlands*, 1934: p. 83-4. • LKG: XII 49. (**Haeggglund**) No references found.

**2555. Dissertation, 1757:** M.G.H. | Kort Afhandling | Om | Gipsen, | Med Wederbörandes Minne/ | Under | [4 lines of titles and memberships] | Hr: Pehr Kalms | Inseende | Til offentlig granskning/ | F ör Lager=Krantzen/ | Utgifwen | Af | Johan Fridric Müller, | Österbotninge. | J Åbo Acad. Större Lårosal den 28. Julii s.m. 1757. | [ornate rule] | Åbo, Tryckt hos Direct. och Kongl. Boktr. i Stor=För= | stendömet Finland, Jacob Merckell.

4°: 1-14, [4] p.

VERY SCARCE. Dissertation – Johan Fredric Müller, respondent. Describes how the mineral gypsum is mined and used.

**Johan Fridric Müller.** (BORN: ; DIED: ) *Swedish.*

BIOGRAPHY NEEDED

REFERENCES: BL: [B.396.(4.)]. • Laitakari, *Geologische Bibliographie Finnlands*, 1934: p. 84. • LKG: XVI 281. (**Müller**)

**2556. Dissertation, 1757:** D.F.G. | Dissertatio | Examen | Animadversionum | Pseudonymi Cujusdam | De | Hypothesi | Diminutionis | Aquarum | Sistens, | Cujus Partem Priorem, | Consentiente Facult. Philos. in Reg. Acad. Aboensi, | Præsidi | Dn. Petro Kalm, | [2 lines of titles and memberships] | Pro Laurea, | In Aud. Majori Die XXVII. Julii Anni MDCCLVII. | H.A.M.S. | P:publicæ disquisitioni submittit | Johannes Brownallius J.F. | Ostrobothniensis. | [rule] | Aboæ, Impressit Direct. & Typogr. Reg. Magn. Duc. | Finland, Jacob Merckell.

4°: 1-14 p.

VERY SCARCE. Dissertation – Johannes Brownallius, respondent.

REFERENCES: BL: [B.396.(8.)]. • LKG: XIII 86.

**2557. Dissertation, 1757:** J.J.N. | Kort Afhandling | Om | Tak=Skifwers | Upletande/ Igen=Kännande | och Nyttä, | Med Wederbörandes Minne | Under | Oeconomix Professorens, Kongl. Swenska Wet= | tenskaps Academiens och Upsala Wettensk. Societ. | Ledamoig/ [?] | Somt | Nu Warende Acade. Rect. | Hr. Pehr Kalms | Inseende, | för | Lager Krantzen | Utgiswen Af | Jacob Benedictius, | Österbotninge. | J Åbo Större, Låro Sal/ s.m. den 26 Mart., 1757. | [rule] | Åbo, Tryckt hos Direct. Uren och Kongl. Boktr. i Stor=För= | stendömet Finland, Jacob Merckell.

4°: 1-10 p.

VERY SCARCE. Dissertation – Jacob Benedictus [1730-1792], respondent. Describes various aspects of slate. In particular roofing slate, an important product of the eighteenth century economy.

**Jacob Benedictus.** . No information found.

REFERENCES: BL: [B.236.(11.)]. • Laitakari, *Geologische Bibliographie Finnlands*, 1934: p. 84. • LKG: XVI 429. (**Benedictus**) No references found.

## KANT, Immanuel.

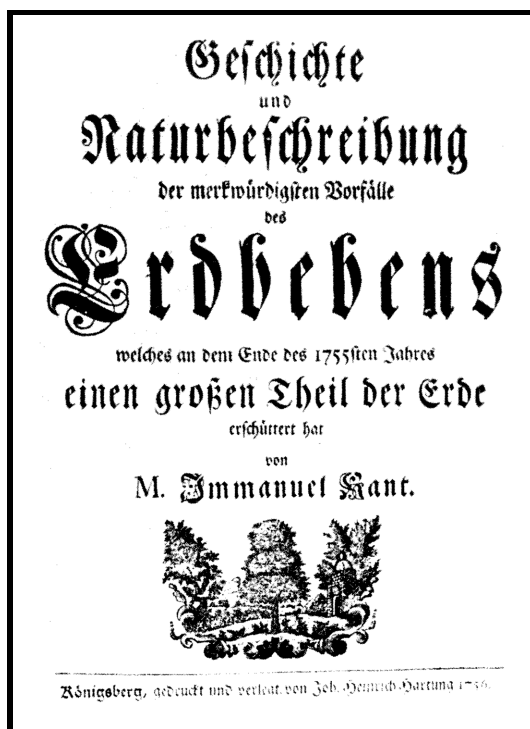
Kant is one of the most influential philosophers in the history of Western philosophy. His contributions to metaphysics, epistemology, ethics, and aesthetics have had a profound impact on almost every philosophical movement that followed him.

German philosopher and founder of critical philosophy. The son of a saddler, Kant was born and educated in Königsberg (Kaliningrad) in East Prussia. After leaving the university he spent a number of years in private

tutoring, but taking his master's degree in 1755, he settled to teach a variety of subjects as Privatdozent. In 1770 he was appointed to the chair of logic and metaphysics at Königsberg. It was after this that he entered on his greatest, "critical" period. His life was orderly to the point of caricature: he never left Königsberg, and never married.

In spite of notorious difficulty of reading Kant, made worse by his penchant for scholastic systematization and obscure terminology, his place as the greatest philosopher of the latest three hundred years is well assured.

REFERENCES: ADB. • Buttner, Manfred and Karl Hoheisel. "Immanuel Kant," *Geographers Biobibliographical Studies*, 4 (1980), 55-67. • DBA: I 477, 240-243; 625, 278-318. • Hamberger & Meusel, *Gelehrte Deutschland*, 1796-1834. • Jöcher, *Gelehrten-Lexikon, Supplement*. • Larkin, Robert P. and Gary L. Peters. *Biographical dictionary of geography*. Westport, Ct., Greenwood Press, 1993. xii, 361 p: p. 153-6. • Poggendorff: 1, cols. 1222-3. • WBI.



GESCHICHTE , 1756

## 2558. — German, 1756.

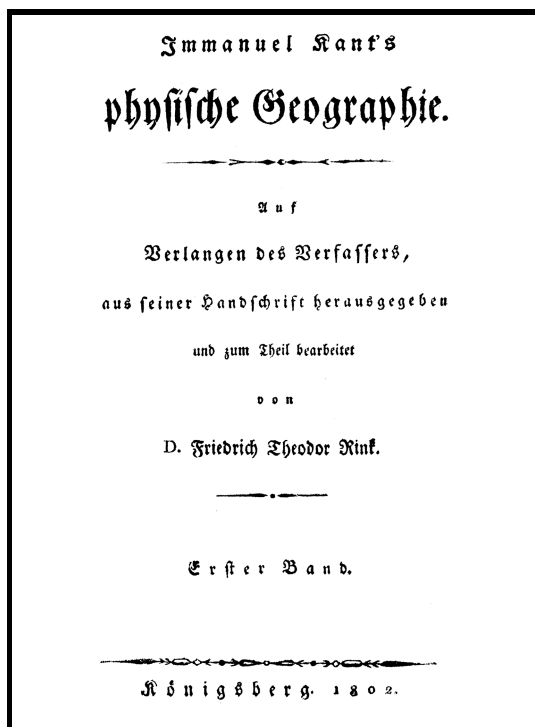
Geschichte | und | Naturbeschreibung | der merkwürdigsten Vorfälle | des | Erdbebens | welches an dem Ende des 1755ten Jahres | einen großen Theil der Erde | erschüttert hat | von | M. Immanuel Kant. | [ornament] | [rule] | Königsberg, gedruckt und verlegt von Joh. Heinrich Hartung 1756.

4°: [1]-40 p., title vignette.

RARE. This monograph discusses the history of earthquakes, together with theories of their causes.

REFERENCES: BL: [no copy listed]. • LKG: XIII 268\*. • Schmidt, Peter. "Gedanken zum Umbruch in der

europäischen Seismologie während des 18. Jahrhunderts", *Zeitschrift für geologische Wissenschaften*, 8 (1980), no. 2, 189-206. [History of European seismology in the 18th century].



PHYSISCHE GEOGRAPHIE, 1802

**2559. — German, 1802.**

Immanuel Kant's | *physische Geographie*. | [ornate rule] | Auf | Verlangen des Verfassers, | aus seiner Handschrift herausgegeben | und zum Theil bearbeitet | von | D. Friedrich Theodor Rink. | [ornate rule] | Erster [-Zweyter] Band. | [ornate rule] | Königsberg, 1802.

2 vols. [VOL 1] 8°: )(4 A-O<sup>8</sup> P-Q<sup>4</sup>; 124ℓ.; [i]-viii, [1]-240 p. [VOL 2] 8°: π<sup>2</sup> A-L<sup>8</sup> M<sup>6</sup> N<sup>4</sup>; 100ℓ.; [4], [1]-195, [1] p. PAGE SIZE: 184 x 110 mm.

CONTENTS: [Vol 1] [i-ii], Title page, verso blank.; [iii]-viii, "Vorrede | des Herausgebers."—signed Rink.; [1]-240, Text.

[Vol 2] [2 pgs], Title page, verso blank.; [2 pgs], "Inhalt des ersten Theils" and "Inhalt des zweyten Theils."; [1]-195, Text.; [1 pg], Blank.

VERY SCARCE. The text for this *Physical Geography* was prepared from manuscript notes by Friedrich Theodor Rink [1770-1811]. Pages 87-102 of the second part describe the mineral kingdom in a very genetic way.

Kant arranged geography into six ranges, about which, physical geography, when basis of the five of other ranges was regarded (mathematical, moral, political, economic and theological geography). Kant

kept the Kolleg over physical geography of the beginning of his Privatdozentur (1755) up to the end of his lecture activity in the summer constant 1796 after 'own dictatis' and not at the manual one printed available text book. On the basis of different manuscripts Rink, a pupil of Kant, has that available two-restrains expenditures. in the year 1802 in king mountain to appear leave. Before still Rink with its edition work was finished, the first two volumes appeared one of K. did not authorize expenditure. A certain Vollmer finally brought 1801 out in Hamburg publishing house the two first volumes of one 1805 expenditure increased up to four volumes. It is still unsettled, in which extent the Vollmer' expenditure decreases/goes back actually - as indicated - on materials, which originate from Kant's lecture-room.

Facsimile reprint, 1975: *Physische Geographie*. Amsterdam., Meridian., 1975. viii, 240 p.; iv, 195 p. 2 vols. in one. Facsimile of the edition of Königsberg, 1802.

REFERENCES: BL. • LKG: XIII 227.

**KAPF, Georg Friedrich.** (BORN: 15 May 1759; DIED: 19 January 1797) *German mineralogist and mine engineer*.

REFERENCES: ADB. • DBA: I 626, 2-5. • Hamberger & Meusel, *Gelehrte Teutschland*, 1796-1834. • Jöcher, *Gelehrten-Lexikon, Supplement*. • Poggendorff: 1, col. 1223. • WBI.

**2560. — German, 1783.**

*Gedichte eines Bergmanns. Ein Versuch*. Tübingen, Bey J.F. Heerbrandts, 1783.

8°: 31 p. A history of mining. VERY RARE.

REFERENCES: NUC.

**2561. — German, 1792.**

*Beiträge zur Geschichte des Kobalts, Kobaltsbergbaues und der Blaufarbenwerke*. Breslau, Maner, 1792.

8°: xiv, 160 p.

RARE. An account of the various ores of cobalt and the metals use in technology and manufacture, particularly the glass industry. The work contains a detailed description of where cobalt can be mined in Germany and other European countries, techniques to utilize the intense blue pigment, and accounts of factories in Europe where this pigment was manufactured. There is also included a great amount of statistics, concentrating on the production levels at the various refineries.

REFERENCES: LKG: XVI 323. • NUC: [no copy listed].

**2562. — German, 1794.**

*Skizzen aus der Geschichte des Schlesischen Mineralreichs*. Breslau, 1794.

8°: xiv, [2], 207 p. A sketch of the mineral history of Schlesia. VERY RARE.

REFERENCES: BL: [990.b.23.]. • LKG: XIV 307. • NUC: [no copy listed].



## KARSTEN

**KARSTEN, Carl Johann Bernhard.** (BORN: Bützow, Mecklenburg, Germany, 26 November 1782; DIED: Berlin, Germany, 22 August 1853) *German mineralogist & metallurgist.*

Father of Hermann Karsten (which see). Carl was the author of several comprehensive works, including *Handbuch der Eisenhüttenkunde* (2 vols., Berlin, 1816), *System der Metallurgie geschichtlich, statistisch theoretisch und technisch* (5 vols. with atlas, Berlin, 1831–32), and *Lehrbuch der Salinenkunde* (2 vols., Berlin, 1846–47). He was also the well known editor of *Archiv für Bergbau und Hüttenwesen* (20 vols., 1818–31) and with H. von Dechen, *Archiv für Mineralogie, Geognosie, Bergbau und Hüttenkunde* (26 vols., 1829–54).

REFERENCES: ADB: 15, 427–30. • DBA: I 629, 96–103; II 683, 259–266. • Hamberger & Meusel, *Gelehrte Deutschland*, 1796–1834. • Karsten, G., *Umrisse zu Carl Johann Bernhard Karsten's Leben und Wirken*. Berlin: Druck von Georg Reimer, 1854. • NDB: 11, 306–7 [by W. Weber]. • Poggendorff: 1, cols. 1227–8. • WBI.

### 2563. — German, 1826.

Untersuchungen | über | die kohligten Substanzen | des | Mineralreichs | überhaupt, | und | über | die Zusammensetzung der in der Preußischen Monarchie vorkommenden Steinkohlen | insbesondere. | [tapered rule] Von | C.J.B. Karsten | [...4 lines of titles and memberships...] | [rule] (Aus dem zwölften Bande des Archivs für Bergbau und Hüttenwesen | besonders abgedruckt.) | [tapered rule] Berlin, 1826. | Gedruckt und verlegt | bei G. Reimer.

8°: 244 p.

VERY SCARCE. An examination of coal one of the most important substances of the 19th century. Included are discussions of its formation, mining and economics.

REFERENCES: BL. • NUC.

Archive für Mineralogie, Geognosie, Bergbau und Hüttenkunde. (Berlin, 1829–54).

See: Archive Für Mineralogie, Geognosie Und Bergbau.

### 2564. — German, 1821.

Metallurgische Reise durch einem Theil von Baiern, und durch die suddeutschen Provinzen Oesterreichs von C.J.B. Karsten. Halle : Curtschen Buchhandlung, 1821.

8°: x, 450 p., 2 plates (folded), illus.

VERY SCARCE. Subject Mines and mineral resources – Germany – Bavaria. Mines and mineral resources – Austria. Metallurgy.

**KARSTEN, Dietrich Ludwig Gustav.** (BORN: Bützow, Mecklenburg, Germany, 5 April 1768; DIED: Berlin, Germany, 20/21 May 1810) *German mineralogist & mining expert.*

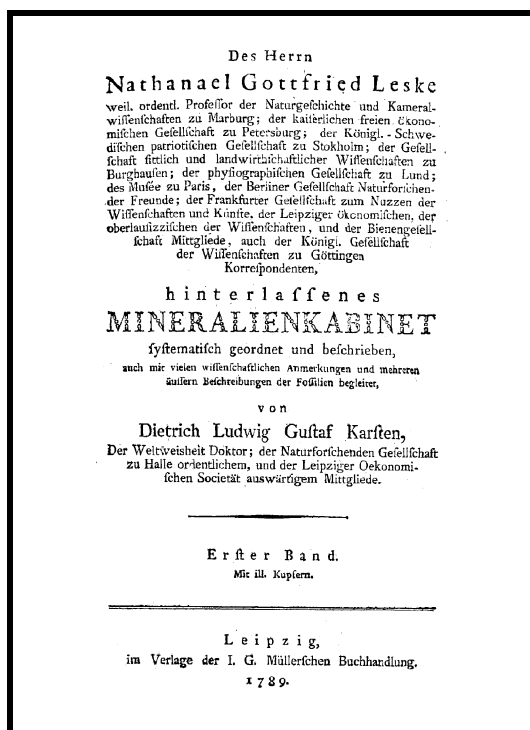
Dietrich was the son of the mathematician Wencelaus Johann Gustav Karsten [1732–1787]. In 1791, Karsten was appointed mining advisor and assessor for the Royal Prussian Mining Works. From 1789, he was instructor in mineralogy and mining at the mining institute in Berlin. At this time, he helped found in 1781 the Royal Mineral Cabinet in Berlin. In 1803, Karsten was elected a extraordinary member of the Academie der Wissenschaften [Academy of Science] in Berlin, and in 1808, he was promoted to an ordinary member. He was also a member of the Gesellschaft



KARSTEN

der naturforscher Freunde [Society of Naturalists Friends] in Berlin.

REFERENCES: ADB: 15, 422–25. • DBA: I 629, 26–50; II 683, 231–235. • Drugulin, *Sechstausend Portraits*, 1863: no. 2887. • Hoppe, G., “Dietrich Ludwig Gustav Karsten (1768 bis 1820). Mineraloge und Bergbeamte in Preussen,” in: Prescher, H., ed., *Leben und Wirken deutscher Geologen im 18. und 19. Jahrhundert*. Leipzig, VEB Deutscher Verlag für Grundstoffindustrie, 1985. • *ISIS*, 1913–65: 2, 6. • Lambrecht & Quenstedt, *Catalogus*, 1938: 228. • NDB: 11, 304 [by W. Weber]. • Poggendorff: 1, cols. 1225–7. • Sarjeant, *Geologists*, 1980: 2, 1423 & Suppl. 2 (1995), 1, 781. • Schiffner, *Alter Freiburger Bergstudenten*, 1935–40: 1, 17–8. • WBI.



MINERALIENKABINETT, 1789

**2565. — German, 1789.**

Des Herrn | Nathanael Gottfried Leske | [...13 lines of title and memberships...] | hinterlassenes | Mineralienkabinett | systematisch geordnet und beschrieben, | auch mit vielen wissenschaftlichen Anmerkungen und mehreren | äussern Beschreibungen der Fossilien begleitet, | von | Dietrich Ludwig Gustaf Karsten, | [...3 lines of titles and memberships...] | [tapered rule] Erster Band. | Mit ill. Kupfern. | [double rule] Leipzig, | im Verlage der I.G. Müllerschen Buchhandlung. | 1789.

[SERIES TITLE PAGE:]

Mvsevm | Leskeanvm | [tapered rule] | Regnvm Minerale | [tapered rule] | Qvod | Ordine Systematico | Disposvit Atque Descripsit | D.L. Gvstavvs Karsten, | [...3 lines of titles and memberships...] | [ornate rule] Vol. II. | Pars prima. | Cum iconibus pictis. | [tapered rule] Lipsiae, | Svmptibvs Haeredvm I.G. Mölleri. | 1789.

2 vols. [VOL 1] 8°: \*1 A-Z<sup>8</sup> 2A-2N<sup>8</sup> 2O<sup>2</sup>; 317ℓ.; [54], [1]-578, [2] p.; [VOL 2] 8°: 280 p., 5 plates (hand-colored). PAGE SIZE: 200 x 115 mm.

CONTENTS: [Vol 1] [2 pgs], Series title page, verso blank.; [2 pgs], Title page, verso blank.; [1 pg], Dedication to Friedrich Anton Freiherrn von Heinitz.; [1 pg], Blank.; [4 pgs], Text of dedication, signed D.L. Gustaf Karsten.; [22 pg], "Vorrede."; [1]-578, Text.; [2 pgs], "Berichtigungen."

[Vol 2] No copy examined.

VERY SCARCE. This is a descriptive catalog of the mineralogical portion of Nathanael Gottfried Leske's [see note below] natural history collection. Since its publication this work has also been known by the name *Museum Leskeanum*. An earlier part comprising a single volume and not described here, dealt with the entomological collection.

Leske was one of the most prominent student's of ABRAHAM GOTTLÖB WERNER. Between 1782 and 1787 it was under the supervision of Werner that Leske arranged his large mineralogical collection according to Werner's theory of mineral collections. Upon Leske's death and at the urging of his heirs, Karsten another supporter of Werner continued to enlarge the collection and wrote this descriptive catalog. It was an important publication for presenting a practical example of Wernerian doctrine, thus helping to cement the theory in geological science. This publication also helped secure the sale of the 7,331 specimen collection to the Dublin Natural History Museum in 1792 for 1,350 pounds.

The collection is divided into five separate parts, in conformity with the rules outlined by Werner in his article "Von den verschiednerley Mineraliensammlungen, aus denen ein vollständiges Mineralienkabinett bestehen soll" [see *Sammlungen zur Physik und Naturgeschichte*: 1 (1778), 387–420]. According to Werner each part represented a separate study in mineralogical science as a whole,

and therefore a complete cabinet of minerals must consist of as many distinct collections. The five parts correspond to: (1) oryctognosy, or the knowledge of the external characters of minerals, (2) systematics, or the arrangement of minerals into genera and species in a natural order, (3) geognosy, or the knowledge of the earth's internal structure, (4) mineralogical geography, or the distribution of minerals in the earth's crust, and (5) economic mineralogy, or the study of which minerals were valuable.

The "Vorrede" contains an extended table of Werner's Mineralogical system, and the text is divided into five sections, each corresponding to a separate collection.

**Nathanael Gottfried Leske.** (BORN: Muskau, Lusatia, Germany, 22 October 1751; DIED: Marburg, Germany, 25 November 1786) *German physician*. Following the award of a medical degree in 1774, Leske was appointed extraordinary professor of natural history in 1775 and ordinary professor of economics in 1778 at the University of Leipzig. Shortly before his death he was made professor of public finance and administration at the University of Marburg.

REFERENCES: *Allgemeine Deutsche Bibliothek*: 114, no. 2, 501. • *Allgemeine Literatur-Zeitung*: Jan., 1791, 81. • BL. • BMC: 2, 960. • Dana's 7th (Bibliography): 74. • Freiesleben, *Sächsische Mineralien-Verzeichnisse*, 1828: no. 48. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 267-8. • GV (1700-1910): 72, 381-2. • LKG: XV 39. • NUC: 290, 155 [NK 0046072]. • Partsch, *Katalog der Bibliothek*, 1851: no. 471. • Wilson, *History of Mineral Collecting*, 1994: 46, 47, 93, 96, 180 & 216. (Leske) DBA: I 756, 345-369. • Hirsching, *Historisch-literarisches Handbuch*, 1794-1815. • Jöcher, *Gelehrten-Lexikon, Supplement*. • Meusel, *Verstorbenen Teutschen Schriftsteller*, 1802-16. • Poggendorff: 1, col. 1435. • WBI. • Wilson, *History of Mineral Collecting*, 1994: 46, 47, 93, 96 & 180.

**2566. English transl., 1798:** A | Description | of the | Minerals | in the | Leskean Museum. | By Dietrich Ludwig Gustavus Karsten, | [...6 lines of titles and memberships...] | Translated | By George Mitchell, M.B. | [tapered rule] | Vol. I. | containing the | Characteristic and Systematic | Collections. | [tapered rule] London: | Printed And Sold By P. Elmsly And D. Bremner | In The Strand; And R.E. Mercier And Co. | Dublin. | [rule] | 1798.

[TITLE PAGE OF VOLUME TWO:]

A | Description | ... | Vol. II. | containing the | Geological, Geographical, And | (E)conomical Collections. | ... | Dublin. | [rule] | 1798.

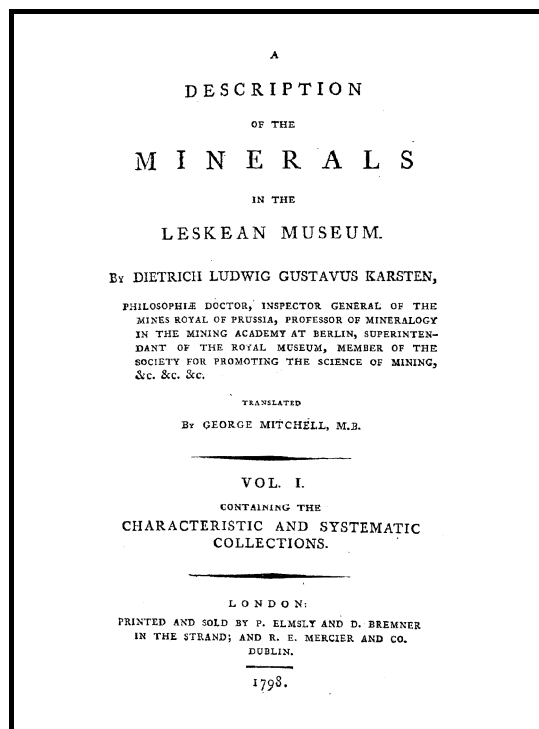
2 vols. [VOL 1] 8°: a<sup>5</sup> B-Z<sup>4</sup> 2A-2Z<sup>4</sup> 3A<sup>4</sup> 3B<sup>1</sup>; 190ℓ.; [i]-x, [1]-369, [1] p.; [VOL 2] 8°: π<sup>1</sup> (3B<sup>2</sup>-3B<sup>4</sup>) 3C-3Z<sup>4</sup> 4A-4R<sup>4</sup> 4Q<sup>3</sup>; 159ℓ.; [2], 371-667, [3] p. PAGE SIZE: 214 x 126 mm.

CONTENTS: [Vol 1] [i-ii], Title page, verso blank.; [iii]-x, "Preface."; [1]-369, Text.; [370], Blank.

[Vol 2] [2 pgs], Title page, verso blank.; [371]-639, Text.; [640], Blank.; [641]-667, "A | Systematic Index | To The | Leskean Museum."; [1 pg], Blank.; [1 pg], "Errata."; [1 pg], Blank.

RARE. Translation by George Mitchell from volume two of *Des Herrn G. Leske hinterlassenes Mineralienkabinett*, also known as *Museum Leskeanum* (Leipzig, 1789); the first volume dealing with entomology was not translated. Describes Leske's mineral collection, which was purchased by the Dublin Society after his death. Vol. I. Containing the Characteristic and Systematic Collections. Vol. II. Containing the Geological, Geographical, and (E)conomical Collections.

The preface gives interesting details about the history of the Leske mineralogical collection and Karsten's descriptive catalog. Also explained in the preliminaries is an



DESCRIPTION OF THE MINERALS, 1798

introduction to Werner's theories of mineral collections, by which the Leske cabinet was arranged. The text of the work than presents a descriptive catalog following Wernerian principles of the five collections. An index to mineral species concluded the work.

**George Mitchell.** (BORN: ; DIED: ) *English geologist.*

[ BIOGRAPHY NEEDED ]

REFERENCES: BL. • LKG: XV 40a. • NUC: [no copy listed]. (Mitchell) Sarjeant, *Geologists*, 1980.

Freymüthige Gedanken über Herrn Inspector Werners Verbesserungen in der Mineralogie, nebst einigen Bemerkungen über Herrn Assessor Karstens Beschreibung des vom. sel. Leske hinterlassenen Mineral-Cabinetts. Von Abbé Estner. (Wein, 1790).

See: Estner, Franz Joseph Anton.

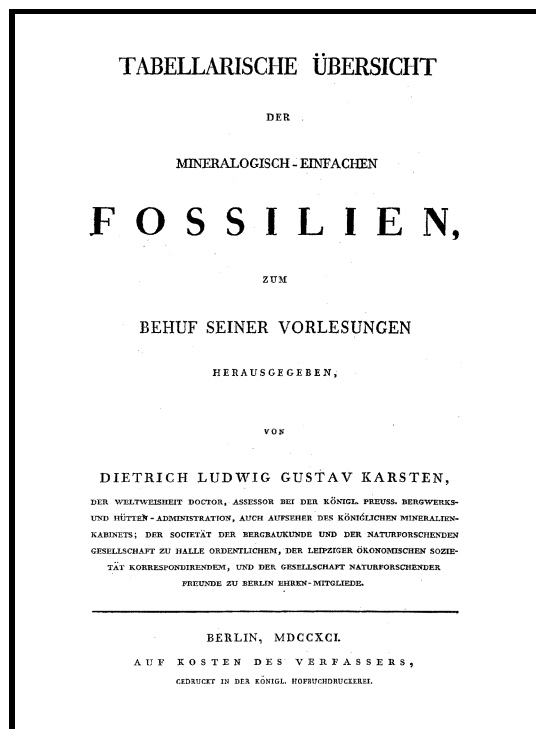
## 2567. — German, 1791 [First edition].

Tabellarische Übersicht | Der | Mineralogisch-Einfachen | Fossilien, | Zum | Behuf Seiner Vorlesungen | Herausgegeben | Von | Dietrich Ludwig Gustav Karsten, | [...6 lines of titles and memberships...] | [rule] | Berlin, MDCCXCI. | Auf Kosten Des Verfassers, | Gedruckt In Der Königl. Hofbuchdruckerei.

2°: \*2 \*2 A-G2; 18ℓ.; [i]-viii, [1]-27, [1] p. PAGE SIZE: 300 x 190 mm.

CONTENTS: [i-ii], Title page, verso blank.; [iii]-viii, "An | Meine Zuhörer."; [1]-27, Text [=tables listing classes, orders, families and species]; [1 pg], Blank.

RARE. A listing in tabular format of mineral



TABELLARISCHE ÜBERSICHT, 1791

species, arranged by class, order and family. It was written in an effort to support Werner's reform of the science.

REFERENCES: *Allgemeine Deutsche Bibliothek*: 114, pt. 1, 161. • *Allgemeine Literatur-Zeitung*: Nov., 1793, 411. • BL. • BMC: 2, 960 [wanting]. • Dana's 7th (Bibliography): 74. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 54 ["Sehr gut und nützlich"]. • GV (1700-1910): 72, 381-2. • LKG: XII 129. • NUC: 290, 155 [NK 0046075]. • Ward & Carozzi, *Geology Emerging*, 1984: no. 1242.

**2568. 2nd editon, 1792:** Tabellarische Uebersicht der mineralogisch – einfachen Fossilien. Von Dietrich Ludwig Gustav Karsten zum Behufe seiner Vorlesungen. Zweite Auflage vermehrte und verbessert. Berlin, 1792.

2°: xii, 35 p. VERY SCARCE.

REFERENCES: BL. • BMC: 2, 960. • GV (1700-1910): 72, 381-2. • LKG: XII 129. • NUC: [no copy listed].

## 2569. — German, 1793.

Ueber | Herrn Werners Verbesserungen | in | der Mineralogie; | auf | Veranlassung | der freimüthigen Gedanken u. | des Herrn Abbé Estner, | von | dem Bergrath Karsten. | [rule] | [rule] | Berlin, 1793. | bei Haude und Spener.

8°: A-E8; 40ℓ.; [1]-79, [1] p. PAGE SIZE: 168 x 104 mm.

CONTENTS: [1-2], Title page, verso blank.; [3]-79, Text, beginning "An den Herrn Abbé Estner!"; [1 pg], Blank.

VERY SCARCE. Karsten wrote this monograph as a response to criticisms presented by Franz Joseph Anton Estner [q.v.] in *Freymüthige Gedanken über Herrn Inspector Werners Verbesserungen in Mineralogie*

(Wien, 1790). Estner had attacked Wernerian theories as presented by Karsten in his description of the Leske mineral cabinet [see entry above]. In this work, written in the form of a letter addressed to Estner, Karsten vigorously defends the Wernerian doctrine. After giving several pages in the way of a general introduction, he takes on Estner's work point by point, giving first a quotation from Estner's monograph followed by his response.

REFERENCES: BL: [972.g.31.]. • BMC: 2, 960. • Dana's 7th (Bibliography): 74. • *Freilich Sale Catalog*: no. 300. • GV (1700-1910): 72, 381-2. • LKG: XII 195. • NUC: 290, 155 [NK 0046077].

### Mineralogische Tabellen

**2570. — German, 1800** [First edition].

Mineralogische | Tabellen | mit Rücksicht auf die neuesten Entdeckungen [sic] | ausgearbeitet | und mit erläuternden Anmerkungen versehen | von | Dietrich Ludwig Gustav Karsten, | [...6 lines of titles and memberships...] | [rule] | Berlin, 1800. | Auf Kosten des Verfassers und in Commission bei Heinrich August Rottmann.

2°: \*2 A-U<sup>2</sup>; 44ℓ.; [ii]-viii, [1]-79, [1] p. PAGE SIZE: 366 x 226 mm.

CONTENTS: [i-ii], Title page, verso blank.; [iii]-viii, "Vorrede."—signed Karsten.; [1], "I. | Die äusseren Kennzeichen der Fossilien, | in XII. Tafeln gebracht."; [2], Blank.; [3]-18, Text.; [19], "II. | Tabellarische Uebersicht | der | mineralogisch-einfachen Fossilien."; 20-57, Text.; [58], Blank.; [59], "III. | Tabellarische Uebersicht | der | Gebirgsarten."; 60-67, Text.; [68], Blank.; 69-79, "Anmerkungen."; [1 pg], Blank.

VERY SCARCE. The forward extolls the virtues of Werner's theories. The tables are then presented. Part I gives tables of the characteristics of minerals, part II. gives a systematic overview with column headings of class, order, family, species, references, and composition, and part III. concerns rocks and has column headings of composition, class, formation, species, and type locality. The "Anmerkungen" contains notes that clarify certain items in the tables.

REFERENCES: BL. • BMC: 2, 960. • Dana's 7th (Bibliography): 74. • GV (1700-1910): 72, 381-2. • LKG: XII 130a. • NUC: 290, 155 [NK 0046073].

**2571. 2nd edition, 1808:** Mineralogische | Tabellen | mit Rücksicht auf die neuesten Entdeckungen [sic] | ausgearbeitet | und mit erläuternden Anmerkungen versehen | von | Dietrich Ludwig Gustav Karsten, | [...8 lines of titles and memberships...] | [tapered rule] | Zweite verbesserte und vermehrte Auflage. | [tapered rule] | Berlin, 1808. Bei Heinrich August Rottmann.

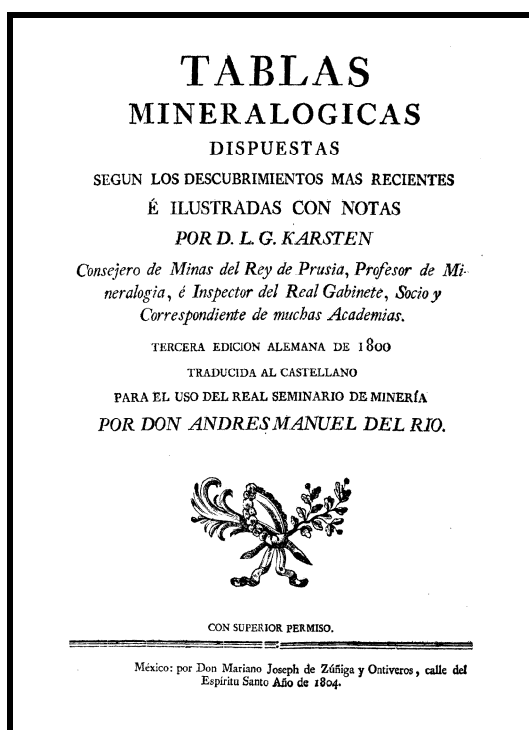
2°: \*2 A-Z<sup>2</sup> 2A-2C<sup>2</sup> 2D<sup>1</sup>; 60ℓ.; [ii]-xiv, [1]-103, [1] p. PAGE SIZE: 392 x 230 mm.

CONTENTS: [i-ii], Title page, verso blank.; [iii]-x, "Vorrede | zur ersten Ausgabe."; xi-xiv, "Vorrede | zur zweiten Ausgabe."—signed Karsten, 5 August 1808.; [1], "I. | Die äusseren Kennzeichen der Fossilien, | in XII. Tafeln gebracht."; [2], Blank.; [3]-19, Text.; [20], Blank.; [21], "II. | Tabellarische Uebersicht | der | mineralogisch-einfachen Fossilien."; 22-75, Text.; [76], Blank.; [77], "III. | Tabellarische Uebersicht | der | Gebirgsarten."; 78-85, Text.; [86], Blank.; [87]-101, "Anmerkungen."; 102-103, "Anhang | von noch zu unbestimmten, aber vorzügliche Aufmerksamkeit verdienenden | Fossilien.";

[1 pg], "Berichtigungen."

VERY SCARCE. Although the text has been updated with the inclusion of additional mineral species and rocks, the format from the first edition has been retained. A supplement treating minerals not completely defined has been included at the end.

REFERENCES: BL. • BMC: 2, 960. • Dana's 7th (Bibliography): 74. • GV (1700-1910): 72, 381-2. • LKG: XV 130a. • NUC: 290, 155 [NK 0046074].



TABLAS MINERALÓGICAS, 1804

**2572. Spanish transl., 1804:** Tablas | Mineralogicas | Dispuestas | Segun Los Descubrimientos Mas Recientes | É Ilustradas Con Notas | Por D.L.G. Karsten | [...3 lines of titles and memberships...] | Tercera Edicion Alemana De 1800 | Traducida Al Castellano | Para El Uso Del Real Seminario De Minería | Por Don Andres Manuel del Rio. | [ornament] | Con superior permiso. | [ornate rule] | Impresas en México: por Don Mariano Joseph de Zúñiga y Ontiveros, calle del | Espíritu Santo Año de 1804.

2°: π<sup>2</sup> A-O<sup>4</sup>; 58ℓ.; [14], [1]-96, [6] p. PAGE SIZE: 290 x 202 mm.

CONTENTS: [2 pgs], Title page, verso blank.; [1 pg], Dedication signed Andres del Rio.; [1 pg], Blank.; [2 pgs], "Introduccion."; [8 pgs], "Prólogo de Karsten."; [1]-73, Text of mineralogical tables.; [74], Blank.; 75-89, "Tablas | de las Rocas."; 89-96, "Apéndice Alfabético | De fósiles nuevos, que describe el C. Haiy en su Mineralogia, | agregada la equinolita."; 96, "Adiciones Y Correcciones."; [6 pgs], "Indice."

VERY SCARCE. Translated by Andres del Río [q.v.] from *Mineralogische Tabellen* (Berlin, 1800). The mineralogical tables that occupy the first 73 pages contain chemical analyses and notes about associations, crystallizations, etc. as observed by various mineralogists of the time. The second section treats rocks in a similar way, but Río has modified it according to Friedrich Heinrich Alexander Freiherr von Humboldt's [q.v.] ideas. At the

## KAYSER

and there is an appendix listing in alphabetical order the new minerals described by Haüy [q.v.] in his *Traité de Mineralogie* (1st ed., 4 vols., Paris, 1801). The modifications and critical notes added to this edition by the translator show that he was keeping abreast of the latest theories even though separated from Europe.

REFERENCES: BL. • Maffei & Rua Figuera, *Bibliografia Mineral*, 1871-2: 1, 381-2, no. 1284. • NUC: 290, 155 [NK 0046076]. • Palau, *Manual*, 1948-77: no. 268180.

Ueber der Herren Werner und Karsten Reformen in der Mineralogie. Nebst Anmerkungen über die ältere und neuere Benennung einiger Stein-Arten ... (Helmstedt, 1793).

See: Veltheim, August Ferdinand, Graf Von.

Lehrbuch der Mineralogie, ausgearbeitet vom Bürger Haüy, Zum Druck befördert durch das Bergwerks-Conseil in Paris. Aus dem Französischen übersetzt, und mit Anmerkungen versehen von Dietrich Ludwig Gustav Karsten ... (Paris & Leipzig, 1804).

See: Haüy, René Just.

**KARSTEN, Hermann.** (BORN: Breslau, Germany, 3 September 1809; DIED: 26 August 1877) *German mineralogist.*

Son of Carl Johann Bernhard (which see). Professor of mathematics and physics and the University of Rostock.

REFERENCES: ADB: 15, 425-27. • Poggendorff: 1, col. 1229.

**2573. Dissertation, 1830:** De crystallographiae mathematicae problematibus nonnullis. Dissertatio altera quam amplissimi atque ornatissimi philosophorum ordinis auctoritate pro Venia Legendi in Academia Rostochiensis scripsit Hermannus Karsten. Accedit tabula lithographica ... Rostochii, Typis Adlerianis, 1830.

8°: 16 p., [1] leaf of plates. PAGE SIZE: 24 x 20 cm  
VERY SCARCE.

**2574. — German, 1861.**

Lehrbuch | der | Krystallographie | von | Dr. Hermann Karsten, | ordentlichm professor der mathematik und physik zu rostock, director der navigations- | schule daselbst, und mehrerer gelehrten gesellschaften mitglieder. | Leipzig, | Leopold Voss. | 1861.

8°: viii, 169 p. Published as *Allgemeine Encyklopädie der Physik*, no. 2. VERY SCARCE.

**KARSTEN, Wenceslaus Johann Gustav.** (BORN: Neu-Brandenburg, Mecklenb.-Strelitz, Germany, 15 December 1732; DIED: Halle, Germany, 17 April 1787) *German mathematician.*

Wenceslaus was father of the noted mineralogist DIEDRICH LUDWIG GUSTAV KARSTEN. He was a well regarded professor of Mathematics at the Universities of Rostock and Halle.

REFERENCES: ADB: 15, 430-31. • Drugulin, *Sechstausend Portraits*, 1863: nos. 2888-9. • NDB: 11, 304a [see notes under D.L.G. Karsten]. • Poggendorff: 1, cols. 1224-5.

**2575. — German, 1785.**

Des Horfaths und Professors des Mathematik und Naturlehre in Halle Wencesl. Joh. Gustav Karstens Kurzer Entwurf der Naturwissenschaft: vornehmlich ihres chymisch-mineralogischen Theils mit kupfern. Halle im Magdeburgischen, In der Rengerschen Buchhandlung, 1785.



WENCESLAUS KARSTEN

8°: [16], 554, [6] p., 4 folding hand-colored plates, illus.

VERY SCARCE. Karsten's text books had in their day a good reputation. In this draft of the natural sciences was conceived by him to accompany his lectures. In it he emphasises mineralogy from the chemical viewpoint.

REFERENCES: LKG: XII 109.

**KAYSER, Gustav Eduard.**

REFERENCES: Poggendorff: 1, col. 1233.

**2576. — Latin, 1830.**

De Cyclo quodam legum duodecim, secundum quas crystalli generum Feldspathi familiae singulariorum geminatim coniunctae inveniuntur. Berolini, Nauck, (1830).

4°: 33, [2] p., one folded engraved plate.

RARE. Thesis concerning crystallography.

REFERENCES: BL. • NUC.

**2577. — German, 1834.**

Beschreibung | der | Mineralsammlung | des | Herrn Medicinalrath Bergemann | zu Berlin. | [short rule] | Erste und zweite Abtheilung. | [ornate rule] | Von | Eduard Kayser. | [rule] | Mit drei Kupfertafeln. | [double rule] | Berlin, 1834. | [short rule] | In Commision der Nauck'schen Buchhandlung.

2 parts in one volume. 8°: vii, [1], 501, [1] p., 3 plates (crystal drawings).

VERY RARE. This is the printed catalog of Gustav Wilhelm Bergemann's [see note below] mineral collection, giving highly detailed descriptions of the specimens. The collection was at the time located in Berlin, but is now lost? The first section describes the hand-sized specimens, while the later describes the larger ones.

**Gustav Wilhelm Bergemann.** *German pharmacist & mineral collector.* Bergemann was a very successful

pharmacist in Berlin. As a hobby he built a superior mineral collection that represented different localities of each mineral species. This cabinet was known as one of the finest of its time. It was acquired by Berlin's Humboldt University in 1837 after Bergemann's death.

REFERENCES: BL. • BMC: 2, 963. • NUC. • Partsch, *Katalog der Bibliothek*, 1851: no. 472. • Sinkankas, *Gemology Bibliography*, 1993: no. 3342. (Bergemann)

**KEATING, William Hypolitus.** (BORN: 1799; DIED: 1840) *American chemist.*

REFERENCES: ABA: I 880, 400-405. • Appleton *Cyclopedia of American Biography*. • Drake, *Dictionary of American Biography*, 1872. • Herringshaw's *National Library of American Biography*. • WBI.

**2578. — English, 1822.**

Account of Jeffersonite. A New Mineral discovered at the Franklin Iron Works, near Sparta, New Jersey by L. Vanuxem and W.H. Keating. Described by William H. Keating ... Philadelphia: J. Harding, 1822.

8°: 12 p. VERY SCARCE.

REFERENCES: Sabin, *Dictionary*, 1868-1936: no. 9181.

**KECKERMANN, Bartholomäus.** (BORN: 1573; DIED: 1608/9) *German theologian.*

REFERENCES: ADB. • DBA: I 634, 72-79. • Eckstein, *Nomenclator philologorum*, 1871. • Jöcher, *Gelehrten-Lexikon*, 1750-51. • Jöcher, *Gelehrten-Lexikon, Supplement*. • WBI.

**2579. — Latin, 1623.**

Systema physicvm, septem libris adornatvm, et anno Christi MCDVII publice propositum in Gymnasio Dantiscano, a Bartholomaeo Keckermanno . Hanoviae : Impensis Ioannis Stockelii, excudebat Petrus Antonivus, 1623.

8°: [16], 853, [10] p. Printer's mark on title page.

Edited by Peter Janich. RARE.

REFERENCES: Hoover Collection: no. 471.

**KEFERSTEIN, Christian.** (BORN: Halle, Germany, 20 January 1784; DIED: Halle, Germany, 24 September 1866) *German lawyer.*

Keferstein was first a prosecutor for the Tribunal in Westfalen, then in 1815 he became an advisor to the department of justice in Halle, where he retired. Keferstein studied mineralogy and geology in his private time, becoming extremely knowledgeable in the subjects.

REFERENCES: ADB. • DBA: I 634, 196-198. • Hamberger & Meusel, *Gelehrte Deutschland*, 1796-1834. • Poggenдорff: 1, cols. 1234-5 & 7a, 314. • WBI.

**2580. — German, 1840.**

Geschichte und Litteratur der Geognosie, ein Versuch von Christian Keferstein. Halle, Lippert, 1840.

8°: [i]-xiv, [1]-281 p.

VERY SCARCE. Based on the author's own library, this is not a particularly good bibliographical review of the literature of Geognosie and is of little value.

REFERENCES: Petzholdt, *Bibliotheca Bibliographica*, 1866: p. 564.

**2581. — German, 1849.**

Mineralogia polyglotta | von | Chr. Keferstein, | Königl. Preussischem Hofrathe. | [ornate rule] | Halle, | in Commission bei Eduard Anton. | 1849.

8°: [i]-xii, [1]-248 p. PAGE SIZE: 214 x 132 mm.

CONTENTS: [i-ii], Title page, verso blank.; [iii], Dedication.; [iv], Blank.; [v]-xii, "Inhalt."; [1]-248, Text.

VERY SCARCE. A remarkable study of mineralogical nomenclature through all of the world's languages, or at least as many as the author could find mineralogical data. The author has taken considerable effort in compiling his mineralogical names and tracing their equivalent expression in a plethora of languages including Chinese, Sanskrit, Hindu, Malaysian, Arabic, ancient and modern Greek, Latin, Russian, English, French, Italian, Gaelic, etc.

REFERENCES: BL. • NUC. • Sinkankas, *Gemology Bibliography*, 1993: no. 3344.

**2582. — German, 1834.**

Die | Naturgeschichte | des | Erdkörpers | in | ihren ersten Grundzügen | dargestellt | von | Ch. Keferstein. | [rule] | Erster Theil. | Die Physiologie der Erde und Geognosie. | [double rule] | Leipzig, 1834. | Friedrich Fleischer.

2 parts. [Part 1] 8°: [i]-x, [2], [1]-394 p. [Part 2] 8°: [i]-iv, [1]-896 p.

CONTENTS: [Part 1] [i-ii], Title page, verso blank.; [iii], Dedication to Christian Ludwig Nitzsch.; [iv], Blank.; [v]-viii, "Einleitung."; [ix]-x, "Inhalt | des ersten Theiles."; [1 pg], Sectional title page, "Erste Abtheilung | Die Physiologie der Erde."; [1 pg], Blank.; [1]-122, Text to section one.; [123], Sectional title page, "Zweite Abtheilung | Die Geognosie."; [124], Blank.; [125]-127, "Vorwort."; 128-394, Text to section two.

[Part 2] [i-ii], Title page, verso blank.; [iii]-iv, "Inhalt | des zweiten Theiles."; [1], Sectional title page, "Erste Abtheilung | Die Geologie."; [2], Blank.; [3]-176, Text to section one.; [177], Sectional title page, "Zweite Abtheilung | Die Paläontologie."; [178], Blank.; [179]-182, "Vorwort."; [183]-896, Text to section two.

RARE. More of a geological work rather than mineralogical, the two parts of Keferstein's *Naturgeschichte des Erdkörpers* covers the Physiology of the Earth, Geognosy, Geology, and Paleontology. There is some information regarding the formation of the minerals inside the earth, based apparently on the ideas of Werner.

[Part 1] "Die Physiologie der Erde und Geognosie."

[Part 2] "Die Geologie und Paläontologie."

REFERENCES: BL. • NUC. • USGS Library Catalog.

**KEILL, John.** (BORN: 1671; DIED: 1721) *English mathematician.*

REFERENCES: Allibone, *Dictionary of English Literature*, 1859-71. • BBA: I 635, 258-339. • Chamber's *Scottish Biographical Dictionary*, 1996. • Waller, *Dictionary of Universal Biography*, 1857-63. • WBI.

**2583. — English, 1698** [First edition].

An examination of Dr. Burnet's Theory of the earth together with some remarks on Mr. Whiston's New theory of the earth by Jo. Keill. Oxford, Printed at the Theater, 1698.

## KELLNER

8°: a<sup>4</sup> A-O<sup>8</sup>; 166ℓ.; [8], 224 p., illus.

RARE. A mathematician and astronomer, Keill was known mainly for his exposition of the Newtonian principles and for his arguments against the theory of 'natural philosophy' championed by Whiston and Burnet. With the appearance of his *Examination of Dr. Burnet's Theory of the Earth* his reputation increased, although his serious use of long trigonometrical proofs to oppose the *Theory* by testing its hypotheses is to the modern reader ridiculous.

REFERENCES: Hoover Collection: no. 472. • NUC.

**2584. 2nd edition, 1734:** An | Examination | Of | Dr. Burnet's Theory of the Earth: | With Some | Remarks | On | Mr. Whiston's New Theory of the Earth. | Also | An Examination of the Reflections on the | Theory of the Earth; | And | A Defence of the Remarks on Mr. Whiston's | New Theory. | [rule] | By J. Keill, A.M. of Balliol College, Oxon. | [rule] | The Second Editin Corrected, and all the Figures | (25 in Number) Engraved on Copper Plates. | [double rule] | To the whole is annexed a Dissertation | On The | Different Figures of the Coelestial Bodies, &c. | With a Summary Exposition of the Cartesian and Newtonian Systems. | [rule] | By Mons. de Maupertuis, Fellow of the Royal | Society, and of the Royal Academy in Paris. | [double rule] | Printed for and Sold by H. Clements, near the Theatre in Oxford's | and S. Harding, on the Pavement in St. Martin's Lane, London. | [rule] | M DCC XXXIV.

8°: [8], [1]-347, [1], [1]-67, [1] p., 13 plates, illus. RARE.

CONTENTS: [2 pgs], Title page, verso blank.; [5 pgs], Dedication, signed Jo. Keill.; [1 pg], "Advertisment."; [1]-23, "Introduction."; 24-347, Text.; [1 pg], Blank.; [1]-67, Text, starting "A | Dissertation | On The | Different Figures of the | Coelestial Bodies ..."; [1 pg], "Books | Printed for | Samuel Harding ..."; [At end], 13 plates.

REFERENCES: Hoover Collection: no. 473. • NUC.

**KELLEY, Jay George.** (BORN: 1838; DIED: 1899) *American mining engineer.*

REFERENCES: ABA: I 885, 1-2. • *Herringshaw's National Library of American Biography.* • WBI. • *Who Was Who in America.*

**2585. — English, 1899.**

The Boy | Mineral Collectors | By | Jay G. Kelley, M.E. | [ornament] | Philadelphia | J.B. Lippincott Company | 1899.

8°: [1]-362 p., frontispiece (colored, showing mineral specimens). PAGE SIZE: 188 x 120 mm.

CONTENTS: [Frontispiece]; [1-2], Title page, verso "Copyright 1898, | ..."; [3], "Preface."; [4], Blank.; [5], "Contents."; [6], Blank.; 7-351, Text.; [352], Blank.; 353-362, "Index."

VERY SCARCE. This juvenile work is a rather formal Victorian treatment of the hobby of mineral collecting in the form of a conversation between two Ohio boys visiting their uncle in Denver, Colorado. It is an entertaining read, giving a practical education in mining, minerals, and gemstones, with the additional colored frontispiece showing uncut jewels and minerals. A variety of subjects pertinent to mineralogy are covered in the 20 chapters.

REFERENCES: Sinkankas, *Gemology Bibliography*, 1993: no. 3352.

**KELLNER, David.** (BORN: Gotha, Germany, 16—; DIED: 17—) *German physician.*

Kellner studied medicine in Helmstedt, receiving his M.D. in 1670 (or 1673). He worked in Nordhausen, and may have been a physician to the court. The second of his surgical dissertations is dedicated to Johann Langguth, a physician in the service of Duke Ernst of Saxony. It is possible that Langguth advanced Kellner in his work. He dedicates one of his books to Johann Scheib, the surgeon and barber of Gotha (the prince's city of residence) whom Kellner calls his friend and patron. He authored several treatises concerning mining, assaying and metallurgy.

REFERENCES: Hirsch, *Biographisches Lexikon*, 1884-8: 3, 499. • Jöcher, *Gelehrten-Lexikon*, 1750-51: 2, 2059-60. • Jöcher, *Gelehrten-Lexikon, Supplement*: 3, 187-8. • Poggendorff: 1, col. 1240.

Synopsis Musaei Metallici viri Incomparabilis Ulyssis Aldrovandi. (Leipzig, 1701).

See: Aldrovandi, Ulysse.

**2586. — German, 1702.**

David Kellner: Kurtz abgefasstes sehr nütz- und erbauliches Berg- und Salzwercks-Buch, in welchem alles, was in Herrn Mathesii, Eichholtzens und Suchlandes weitläuffigen Berg-Predigten und Schrifften von Berg- und Salzwercken, Mineralien, Ertzen, Metallen und deren Zubereitungen, wie auch von Glasmachen leß- und merkwürdiges enthalten. - nebst noch etlichen andern Tractätlein von dem dlen Salzwercke, item einer neuen Invention aus Koch-Salz Salpeter zu machen, wie auch einem Bergmännischem Wegweiser zu verborgenen Ertz-Gängen. Und dann noch einigen alten Urkunden und Nachrichten von vielen Oertern im Reiche, wo gute Gold- und Silber-Ertze stehen sollen. Allen Liebhabern und Freunden des edlen Berg-Salz- Salpeters- und Hüttenwerckbaues zu sonderbahren Dienst mit grossem Fleiß also zusammen getragen und auf Ersuchen zum Druck befördert. – Frankfurt und Leipzig, Verlegts Carl Christian Neuenhahn, Buchhändl. in Nordhausen, 1702.

8°: [12], 562, [22] p., one plate, 4 illus.

RARE. This very interesting work contains numerous prescriptions and descriptions in the way of minerals and mining. The beautiful copper board shows four scenes from the mining industry and the preparation of metals.

REFERENCES: BL. • Hoover Collection: no. 474. • NUC.

**KELVIN, William Thomson, Lord.**

REFERENCES: Allibone, *Dictionary of English Literature*, 1859-71. • BBA: I 1080, 208-280. • WBI.

**2587. — English, 1894.**

The | Molecular Tactics Of | A Crystal | By | Lord Kelvin, P.R.S. | [...2 lines of titles and memberships...] | Being the Second Robert Boyle Lecture, delivered before | the Oxford University Junior Scientific Club | on Tuesday, May 16, 1893 | With Twenty

Illustrations | Oxford | At The Clarendon Press | 1894.

8°: [1]-59, [1] p., 20 illus.

CONTENTS: [1-2], Half title page, "The Molecular Tactics Of | A Crystal," verso printer's information.; [3-4], Title page, verso "Oxford | Printed At The Clarendon Press | ..."; [5]-59, Text.; [1 pg], Blank.

RARE. "My subject this evening is not the physical properties of crystals, not even their dynamics; it is merely the geometry of the structure—the arrangement of the molecules in the constitution of the crystal."

REFERENCES: NUC. • Roller & Goodman, *Catalogue*, 1976.

#### KENDALL, Francis.

##### 2588. — English, 1816.

[Engraved title page:] A | Descriptive Catalogue | Of The | Minerals, | and | Fossil Organic Remains | of | Scarborough, | and the | Vicinity. | [tapered rule] | [Hand-colored scene, 80 x 64 mm.] | [tapered rule] | Scarborough. | Printed by J. Coultas. | 1816.

[PRINTED TITLE PAGE:]

A | Descriptive Catalogue | Of The | Minerals, | and | Fossil Organic Remains of Scarborough, and the Vicinity, | Including the line of coast from Hornsea to Mulgrave, and | Extending into the interior as far as Malton. | [double rule] | [...5 lines of Latin verse] | [double rule] | Scarborough: | Printed by and for T. Coultas, Newbrough-Street; and Sold by | Lackington, Allen, & Co., London; J. & G. Todd, and Wolstenholme, York; J. Craggs, Hull; R.W. Snow, Malton; and Rodgers, Whitby. | [rule] | 1816.

4°: A<sup>6</sup> B-Z<sup>4</sup> 2A-2P<sup>4</sup> 2Q<sup>3</sup>; 157ℓ.; [6], [i]-viii, [9]-316, [1] errata p., 5 hand-colored plates, one folding plate, index.

CONTENTS: [2 pgs], Engraved title page, verso blank.; [2 pgs], Printed title page, verso blank.; [1 pg], "Advertisement."—dated 16 March 1816.; [1 pg], Blank.; [i]-vi, "Subscriber's Names."; [7], Sectional title page, "Part First | [double rule] | Minerals. | [double rule]."; [8], Blank.; [9]-311, Text.; [312], Blank.; [313]-316, "Index."; [1 pg], "Corrigenda."; [1 pg], Blank.

VERY SCARCE. Excellent descriptive catalog of the minerals and fossils found in the region of Scarborough. Arranged in five sections: minerals, fossil conchology, fossil zoophytes, fossil vegetable remains, and fossil bones. It includes a six page list of subscribers and four hand-colored plates.

REFERENCES: NUC. • Ward & Carozzi, *Geology Emerging*, 1984: no. 1250.

**KENNGOTT, Gustav Adolf.** (BORN: Breslau, Germany [now Wrocław, Poland], 6 January 1818; DIED: Lugano, Switzerland, 7 March 1897) *German mineralogist.*

Kenngott was first a docent at the University of Breslau, before becoming an assistant in the management of the royal mineral collections in Vienna. In 1875, he was appointed professor of mineralogy at the Polytechnical

University of Zurich. From 1875 onward he also took on the role of director of the University.

REFERENCES: Barr, *Index to Biographical Fragments*, 1973: 139. • DBA: I 639, 360-361; II 695, 382, 391-397. • *Encyclopaedia Britannica*, 11th edition. • Poggendorff: 1, cols. 1242-3, 2, col. 1446, 3, 713 & 4, 739-40. • Sarjeant, *Geologists*, 1980: 2, 1435. • WBI. • *World Who's Who in Science*: 923.

##### 2589. — German, 1842.

Systematis crystallorum rhombici adumbratio. Vratislaviae, Fritzlanis, 1842.

4°: 45, [2] p. Dissertation presented at the University of Breslau in 1842. VERY SCARCE.

REFERENCES: NUC: 293, 397-9 [NK 0096089].

##### 2590. — German, 1844.

De notione & principiis crystallogiæ quæsequuntur Crystallorum species nonnullæ ad angulos observatos descriptæ. Dissertatio inauguralis quam ... publice defendet J. Gust. Adolphus Kenngott Vratislaviæ, Typis Eduardi Klein, 1844

4°: 26 p. Dissertation presented at the University of Breslau in 1844.

RARE. Crystallography. Kenngott's dissertation?.

REFERENCES: NUC: 293, 397-9 [NK 0096071].

##### 2591. — German, 1846.

Lehrbuch | der | reinen | Krystallographie | von | Dr. Gustav Adolf Kenngott, | Privatdocenten der Mineralogie an der Universität zu Breslau. | Mit 4 Bogen lithographirter Krystallnetze. | [ornate rule] | Breslau, | Verlag von Eduard Trewendt | 1846.

8°: viii, 182 p., diags (partly folding). VERY SCARCE.

##### 2592. — German, 1859.

Tabellarischer leitfaden der Mineralogie zum gebrauche bei Vorlesungen und zum Selbststudium. Bearbeitet von Dr. Adolf Kenngott ... Zürich, Orell, Füssli und comp., 1859.

8°: [2], [v]-xii, 269, [2] p. VERY SCARCE.

REFERENCES: NUC: 293, 397-9 [NK 0096092].

##### 2593. — German, 186-.

Die Mineralogie. | [rule] | Leicht faßlich dargestellt | von | Prof. Dr. A. Kenngott. | [rule] | Mit zahlreichen in den Text gedruckten Holzschnitten. | [ornate rule] | Stuttgart. | Verlag von Otto Weisert.

8°:  $\pi^2$  1-21<sup>8</sup> 22<sup>1</sup>; 171ℓ.; [4], [1]-338 p. PAGE SIZE: 224 x 140 mm.

CONTENTS: [2 pgs], Title page, verso blank.; [1 pg], "Inhalt."; [1 pg], Blank.; [1]-5, "Einleitung."; [6]-333, Text.; [334]-338, "Register zur Physiographie."

VERY SCARCE. An introductory work to mineralogy, providing basic definitions, terminology, descriptions of crystal forms and systems, color, lustre, hardness, fracture, specific gravity, chemistry, etc. The later portion provides a descriptive mineralogy.



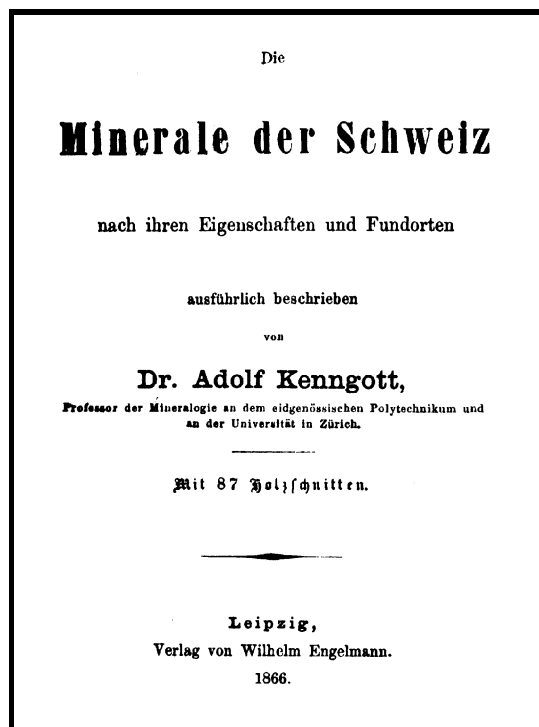
## KENNGOTT

### 2594. — German, 1863.

Ueber die Meteoriten oder die meteorischen Stein- und Eisenmassen. Ein öffentlicher Vortrag, gehalten am 19. Februar 1863 in Zürich von Dr. A. Kenngott ... Leipzig: W. Engelmann, 1863.

8°: 26 p. VERY SCARCE.

REFERENCES: NUC: 293, 397-9 [NK 0096094].



DIE MINERALE DER SCHWEIZ, 1866

### 2595. — German, 1866.

Die | Minerale der Schweiz | nach ihren Eigenschaften und Fundorten | ausführlich beschrieben | von | Dr. Adolf Kenngott, | Professor der Mineralogie an dem eidgenössischen Polytechnikum und | an der Universität in Zürich. | [rule] | Mit 87 Holzschnitten. | [tapered rule] | Leipzig, | Verlag von Wilhelm Engelmann. | 1866.

8°:  $\pi^5$  1-28<sup>8</sup> 294; ?? [i]-x, [1]-460 p., 87 text illus.

PAGE SIZE: 160 x 108 mm.

CONTENTS: [i-ii], Title page, verso blank.; [iii], Dedication to David Friedrich Wiser.; [iv], Blank.; [v]-viii, "Vorrede."—signed A. Kenngott, 24 February 1866.; [ix]-x, "Inhalts-Verzeichniss."; [1]-[422], Text.; [423]-455, "Verzeichniss der Fundorte."; [456]-458, "Sachregister."; [459]-460, "Verbesserungen und Zusätze."

SCARCE. This topographical mineralogy of Switzerland and the alps contains the usual notes about localities and associations, as well as original observations about many of the minerals, particularly with regard to crystallographic determinations. The

text contains a list of minerals found in Switzerland, with historical notes, crystal forms and localities.

REFERENCES: *American Journal of Science*: 2nd Series, 42 (1866), 125. • Dana's 7th (Bibliography): 75. • NUC: 293, 397-9 [NK 0096084].

### 2596. — German, 1876.

Erster Unterricht in der Mineralogie, entworfen von Dr. Adolf Kenngott ... Darmstadt: J.P. Diehl, 1876.

8°: 31, [1] p. VERY SCARCE.

REFERENCES: NUC: 293, 397-9 [NK 0096075].

### 2597. — German, 1890.

Elementare Mineralogie, besonders zum Zwecke des Selbststudiums leicht faßlich dargestellt. Von Prof. Dr. A. Kenngott ... Stuttgart: O. Weisert, 1890.

8°: [4], 338 p., illus. VERY SCARCE.

REFERENCES: NUC: 293, 397-9 [NK 0096073].

### 2598. — German, 1848.

Lehrbuch der reinen Krystallographie. Mit 4 Bogen lithographirter Krystallnetze. Von Dr. Gustav Adolf Kenngott ... Breslau: E. Trewendt, 1848.

8°: VERY SCARCE.

REFERENCES: NUC: 293, 397-9 [NK 0096083].

### 2599. — German, 1871.

Lehrbuch der Mineralogie zum Gebrauche beim Unterricht an Schulen und höheren Lehranstalten ... 2. verm. und verb. Auflage ... Darmstadt, 1871.

8°: VERY SCARCE.

### 2600. — German, 1876.

Lehrbuch der Mineralogie zum Gebrauche beim Unterricht an Schulen und höheren Lehranstalten ... 4. verm. und verb. Auflage ... Darmstadt: J.P. Diehl, 1871.

8°: 210 p. VERY SCARCE.

### 2601. — German, 1880.

Lehrbuch der Mineralogie zum Gebrauche beim Unterricht an Schulen und höheren Lehranstalten ... 5. verm. und verb. Auflage ... Darmstadt: J.P. Diehl, 1880.

8°: [6], 210 p., illus. VERY SCARCE.

REFERENCES: NUC: 293, 397-9 [NK 0096081].

### 2602. — German, 1849-50.

Mineralogische Untersuchungen. Erstes Heft. Breslau, p.p., in Commission bei Carl Schmeidler, 1849-50.

2 vols. [VOL 1] 8°: iv, 77 p., Tafel I. [VOL 2] 8°: iv, 81-156 p., Tafel II. VERY SCARCE.

REFERENCES: Dana's 7th (Bibliography): 74. • NUC: 293, 397-9 [NK 0096085].

## Uebersicht der Resultate



UEBERSICHT, 1852

**2603. — German, 1852.**

Uebersicht | der Resultate | Mineralogischen Forschungen | in den Jahren 1844 bis 1849. | Von | Dr. Gustav Adolph Kenngott. | [ornament] | Herausgegeben von der k.k. geologischen Reichsanstalt. | [ornament] | Wien. 1852. | Aus der K.K. Hof- und Staatsdruckerei. | [rule] | Bei W. Braumüller, Buchhändler des k.k. Hofes und der K. Akademie der Wissenschaften.

4°: \*2 1-414 421; 175ℓ.; [i]-xx, [1]-330 p. PAGE SIZE: 254 x 184 mm.

CONTENTS: [i-ii], Half title page, "Uebersicht | Der Resultate | Mineralogischer Forschungen | In Den Jahren 1844—1849," verso blank.; [iii-iv], Title page, verso blank.; [v]-viii, "Vorwort"—dated A. Kenngott, July 1851.; ix-xix, "Inhaltsverzeichnis."; xix-xx, "Abkürzungen in der Quellenangabe."; [1]-320, Text.; [321]-330, Author/subject index.

VERY SCARCE. Describes the mineralogical discoveries for the period 1844 to 1849. It is written as a continuation of Haidinger's *Uebersicht der Resultate mineralogischer Forschungen im Jahre 1843* (Erlangen, 1845). The work was a success, and the following entries show the continuation.

REFERENCES: Dana's 7th (Bibliography): 74.

**2604. — German, 1853.**

Uebersicht | Der Resultate | Mineralogischen Forschungen | In Den Jahren 1850 und 1851. | Von | Dr. Gustav Adolph Kenngott, | Custos-Adjuncten

Am K.K. Hof-Mineralien-Cabinete etc. | [ornament] | Beilage zu dem Jahrbuch der k.k. geologischen Reichsanstalt. | III. Jahrgang, 1852, Heft Nr. 4 | [ornate rule] | Wien 1853. | Aus Der K.K. Hof-Und Staatsdruckerei. | [rule] | Bei W. Braumüller, Buchhändler Des K.K. Hofes Und Der K. Akademie Der Wissenschaften.

4°:  $\pi^4$  b<sup>2</sup> 1-264 272; 112ℓ.; [i]-xii, [1]-212 p. PAGE SIZE: 254 x 184 mm. VERY SCARCE.

CONTENTS: [i-ii], Half title page, "Uebersicht | Der Resultate | Mineralogischer Forschungen | In Den Jahren 1850 Und 1851," verso blank.; [iii-iv], Title page, verso blank.; [v]-xi, "Inhaltsverzeichnis."; xii, "Abkürzungen in der Quellenangabe."; [1]-204, Text.; [205]-210, "Autorenregister & Sachregister."; [211]-212, "Druckfehler."

REFERENCES: Dana's 7th (Bibliography): 74. • NUC: 293, 397-9 [NK 0096086].

**2605. — German, 1854.**

Uebersicht | Der Resultate | Mineralogischen Forschungen | In Den Jahre 1852. | Von | Dr. Gustav Adolph Kenngott, | Custos-Adjuncten Am K.K. Hof-Mineralien-Cabinete etc. | [ornament] | Beilage zu dem Jahrbuch der k.k. geologischen Reichsanstalt. | III. Jahrgang, 1853, Heft Nr. 2 | [ornate rule] | Wien 1854. | Aus Der K.K. Hof-Und Staatsdruckerei. | [rule] | Bei W. Braumüller, Buchhändler Des K.K. Hofes Und Der K. Akademie Der Wissenschaften.

4°:  $\pi^4$  b<sup>2</sup> 1-214 221; 91ℓ.; [i]-xii, [1]-170 p. PAGE SIZE: 254 x 184 mm. VERY SCARCE.

CONTENTS: [i-ii], Half title page, "Uebersicht | Der Resultate | Mineralogischer Forschungen | In Jahre 1852," verso blank.; [iii-iv], Title page, verso blank.; [v]-x, "Inhaltsverzeichnis."; xi-xii, "Abkürzungen in der Quellenangabe."; [1]-165, Text.; 166-170, "Autorenregister & Sachregister."

REFERENCES: Dana's 7th (Bibliography): 74.

**2606. — German, 1855.**

Uebersicht | der Resultate | Mineralogischen Forschungen | im Jahre 1853. | Von | Dr. Adolph Kenngott, | [...7 lines of titles and memberships...] | [rule] | Leipzig, | T.O. Weigel. | 1855.

8°: \*2 1-214 223; 83ℓ.; [i]-xii, [1]-174 p. PAGE SIZE: 252 x 187 mm. VERY SCARCE.

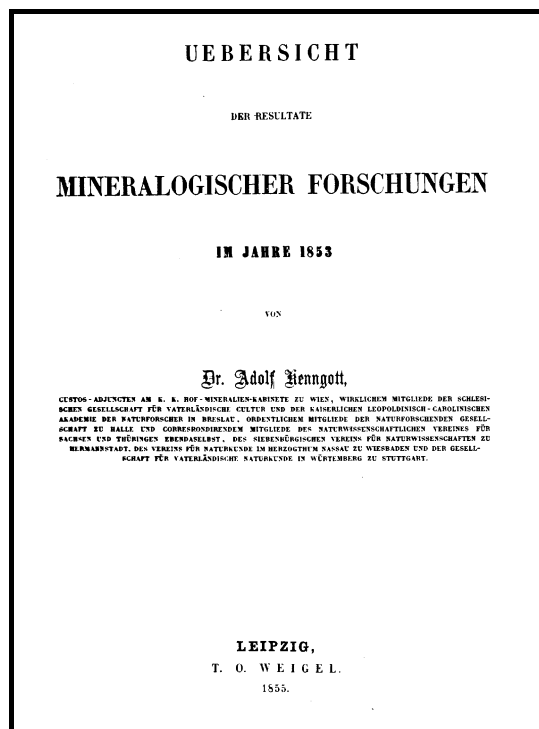
CONTENTS: [i-ii], Half title page, "Uebersicht | Der Resultate | Mineralogischer Forschungen | In Jahre 1853," verso blank.; [iii-iv], Title page, verso blank.; [v]-vi, "Vorwort."; [vii]-xii, "Inhaltsverzeichnis."; [1]-168, Text.; 169-171, "Autoren-Register."; [172]-174, "Sach-Register."

REFERENCES: Dana's 7th (Bibliography): 74.

**2607. — German, 1856.**

Uebersicht | der Resultate | Mineralogischen Forschungen | im Jahre 1854. | Von | Dr. Adolph Kenngott, | [...8 lines of titles and memberships...] | [rule] | Leipzig, | T.O. Weigel. | 1856.

8°:  $\pi^5$  1-234; 97ℓ.; [i]-x, [1]-184 p. PAGE SIZE: 252 x 187 mm. VERY SCARCE.



## UEBERSICHT, 1855

CONTENTS: [i-ii], Half title page, "Uebersicht | Der Resultate | Mineralogischer Forschungen | In Jahre 1854," verso blank.; [iii-iv], Title page, verso blank.; [v]-x, "Inhaltsverzeichnis.;" [1]-179, Text.; [180]-184, Author & subject indexes.

REFERENCES: Dana's 7th (Bibliography): 74.

**2608. — German, 1856.**

Uebersicht | der Resultate | Mineralogischen Forschungen | In Jahre 1855. | Von | Dr. Adolph Kenngott, | [...8 lines of titles and memberships...] | [rule] | Leipzig, | T.O. Weigel. | 1856.

4°:  $\pi^5$  1-224 232; 95 $\ell$ .; [i]-x, [1]-180 p. PAGE SIZE: 252 x 187 mm. VERY SCARCE.

CONTENTS: [i-ii], Half title page, "Uebersicht | Der Resultate | Mineralogischer Forschungen | In Jahre 1855," verso blank.; [iii-iv], Title page, verso blank.; [v]-x, "Inhaltsverzeichnis.;" [1]-175, Text.; [176]-180, Author & subject indexes.

REFERENCES: Dana's 7th (Bibliography): 74.

**2609. — German, 1859.**

Uebersicht | der Resultate | Mineralogischen Forschungen | In Den Jahren 1856 Und 1857. | Bearbeitet | Von | Dr. Adolph Kenngott, | [...2 lines of titles and memberships...] | [rule] | Leipzig, | Verlag Von Wilhelm Engelmann. | 1859.

4°:  $\pi^6$  1-178; 142 $\ell$ .; [i]-xii, [1]-272 p. PAGE SIZE: 224 x 150 mm. VERY SCARCE.

CONTENTS: [i-ii], Half title page, "Uebersicht | Der Resultate | Mineralogischer Forschungen," verso blank.; [iii-iv], Title page, verso blank.; [v]-xii, "Inhaltsverzeichnis.;" [1]-220, Text.; [221]-232, Author & subject indexes.

niss.;" [1]-262, Text.; [263]-265, "Autoren-Register.;" [266]-272, "Sachregister."

REFERENCES: Dana's 7th (Bibliography): 74.

**2610. — German, 1859-62.**

Uebersicht | der Resultate | Mineralogischen Forschungen | im Jahre 1860. | Entworfen | von | Dr. Adolph Kenngott, | Professor der Mineralogie an dem Eidgenössischen Polytechnicum | und an der Universität in Zürich. | [rule] | Leipzig, | Verlag von Wilhelm Engelmann. | 1862.

4°:  $\pi^5$  1-138 145; 114 $\ell$ .; [i]-x, [1]-217, [1] p. PAGE SIZE: 224 x 150 mm. VERY SCARCE.

CONTENTS: [i-ii], Half title page, [missing from copy examined], verso blank.; [iii-iv], Title page, verso blank.; [v]-x, "Inhaltsverzeichnis.;" [1]-206, Text.; [207]-208, "Autoren-Register.;" [209]-217, "Sach-Register.;" [1] pg, "Druck von Breitkopf und Härtel in Leipzig."

REFERENCES: Dana's 7th (Bibliography): 74.

**2611. — German, 1860.**

Uebersicht | der Resultate | Mineralogischen Forschungen | Im Jahre 1858. | Bearbeitet | Von | Dr. Adolph Kenngott, | [...2 lines of titles and memberships...] | [rule] | Leipzig, | Verlag Von Wilhelm Engelmann. | 1860.

4°:  $\pi^5$  1-148 153; 120 $\ell$ .; [i]-x, [1]-229, [1] p. PAGE SIZE: 224 x 150 mm. VERY SCARCE.

CONTENTS: [i-ii], Half title page, [missing from copy examined], verso blank.; [iii-iv], Title page, verso blank.; [v]-x, "Inhaltsverzeichnis.;" [1]-219, Text.; [220]-221, "Autoren-Register.;" [222]-229, "Sachregister.;" [1] pg, "Druck von Breitkopf und Härtel in Leipzig."

REFERENCES: Dana's 7th (Bibliography): 74.

**2612. — German, 1860.**

Uebersicht | der Resultate | Mineralogischen Forschungen | Im Jahre 1859. | Entworfen | Von | Dr. Adolph Kenngott, | [...2 lines of titles and memberships...] | [rule] | Leipzig, | Verlag Von Wilhelm Engelmann. | 1860.

4°:  $\pi^5$  1-138 142; 111 $\ell$ .; [i]-x, [1]-212 p. PAGE SIZE: 224 x 150 mm. VERY SCARCE.

CONTENTS: [i-ii], Half title page, [missing from copy examined], verso blank.; [iii-iv], Title page, verso blank.; [v]-x, "Inhaltsverzeichnis.;" [1]-201, Text.; [202]-203, "Autoren-Register.;" [204]-212, "Sachregister."

REFERENCES: Dana's 7th (Bibliography): 74.

**2613. — German, 1862.**

Uebersicht | der Resultate | Mineralogischen Forschungen | im Jahre 1861. | Entworfen | von | Dr. Adolph Kenngott, | Professor der Mineralogie an dem Eidgenössischen Polytechnicum | und an der Universität in Zürich. | [rule] | Leipzig, | Verlag von Wilhelm Engelmann. | 1862.

4°:  $\pi^5$  1-148 154; 121 $\ell$ .; [i]-x, [1]-232 p. PAGE SIZE: 224 x 154 mm. VERY SCARCE.

CONTENTS: [i-ii], Half title page, "Uebersicht | Der Resultate | Mineralogische Forschungen | Im Jahre 1861," verso blank.; [iii-iv], Title page, verso blank.; [v]-x, "Inhaltsverzeichnis.;" [1]-220, Text.; [221]-232, Author & subject indexes.

REFERENCES: Dana's 7th (Bibliography): 74. • NUC: 293, 397-9 [NK 0096095].



UEBERSICHT, 1868

**2614. — German, 1868.**

Uebersicht | der Resultate | Mineralogischen  
Forschungen | In Den Jahren 1862—1865. |  
Entworfen | von | Dr. Adolph Kenngott, |  
Professor der Mineralogie an dem Eidgenössischen  
Polytechnicum | und an der Universität in Zürich.  
| [rule] | Leipzig, | Verlag von Wilhelm Engelmann.  
| 1868.

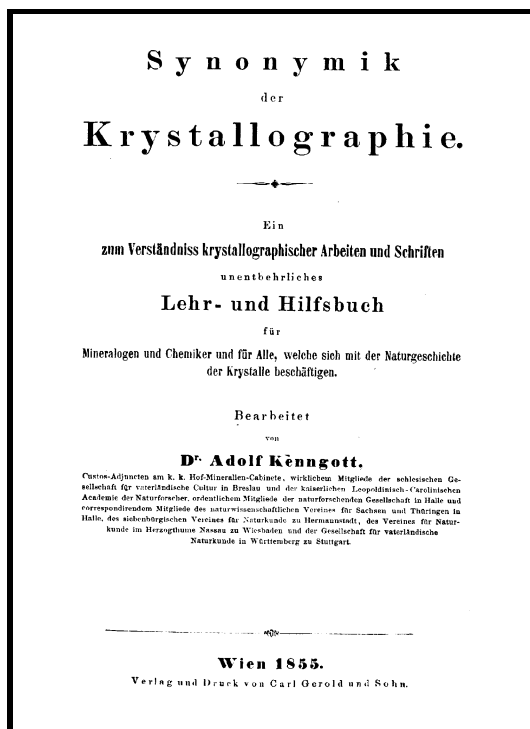
4°:  $\pi^9$  1-30<sup>8</sup>  $\chi^1$ ; 250 $\ell$ .; [i]-xviii, [1]-482 p. PAGE  
SIZE: 224 x 154 mm. VERY SCARCE.

CONTENTS: [i-ii], Title page, verso blank.; [iii]-  
iv, "Vorwort."—signed Adolf Kenngott, January 1868.;  
[v]-xviii, "Inhalts-Verzeichniss."; [1]-471, Text.; 472-482,  
Author & subject indexes.

REFERENCES: Dana's 7th (Bibliography): 74.

**2615. — German, 1855.**

Synonomik | der | Krystallographie. | [ornate  
rule] | Ein | zum Verständniss krystallographischer  
Arbeiter und Schriften | unentbehrliches | Lehr-  
und Hilfsbuch | für | Mineralogen und Chemiker  
und für Alle, welche sich mit der Naturgeschichte  
| der Krystalle beschäftigen. | Bearbeitet | von  
Dr. Adolf Kenngott, | [...7 lines of titles and  
memberships...] | [ornate rule] | Wien 1855. | Verlag  
und Druck von Carl Gerold und Sohn.



SYNONOMIK DER KRISTALLOGRAPHIE, 1855

8°: a-b<sup>8</sup> d<sup>2</sup> 1-11<sup>8</sup>; 106 $\ell$ .; [i]-xxxv, [1], [1]-175, [1] p.  
PAGE SIZE: 226 x 140 mm.

CONTENTS: [i-ii], Title page, verso blank.; [iii]-xxxv,  
"Einleitung."; [1 pg], Blank.; [1]-9, "Uebersicht der  
Systeme."; [10]-175, Text [=alphabetical list of synonyms].;  
[1 pg], "Druckfehler."

SCARCE. The introduction gives an overview of  
crystallographic science, describing methods, proce-  
dures and reasons. Various systems of crystallography  
are then reviewed. This is followed by an alphabeti-  
cal list of various terminology used in crystallography  
together with definitions.

REFERENCES: NUC: 293, 397-9 [NK 0096091].

**2616. — German, 1853.**

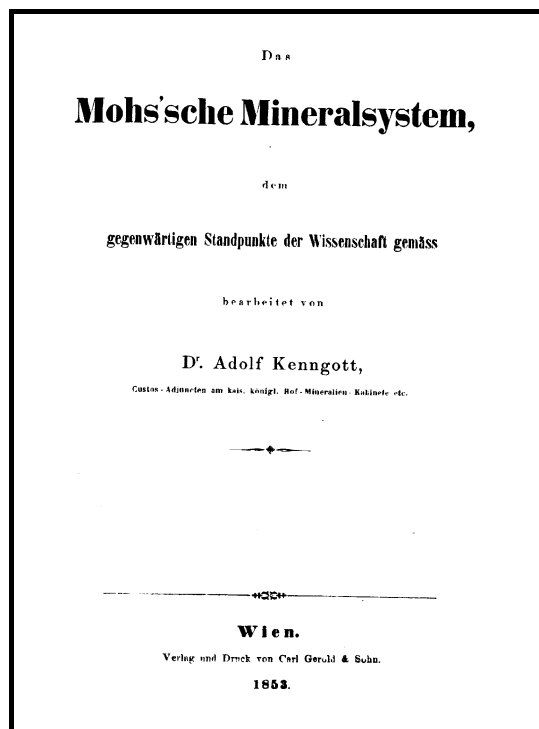
Das | Mohs'sche Mineralsystem, | dem  
| gegenwärtigen Standpunkte der Wissenschaft  
gemäss | bearbeitet von | Dr. Adolf Kenngott,  
| Custos – Adjuncten am kais. königl. Hof –  
Mineralien – Kabinete etc. | [ornate rule] | [ornate  
rule] | Wien. | Verlag und Druck von Carl Gerold  
& Sohn. | 1853.

8°: \*8 1-10<sup>8</sup> 11<sup>2</sup>; 92 $\ell$ .; [i]-xx, [1]-164 p. PAGE SIZE:  
224 x 146 mm.

CONTENTS: [i-ii], Title page, verso blank.; [iii],  
Dedication to Paul Partsch.; [iv], Blank.; [v]-xx,  
"Einleitung."; [1]-138, Text.; [139]-164, "Register."

SCARCE. Commentary over the natural history  
classification system of FRIEDRICH MOHS.

REFERENCES: Dana's 7th (Bibliography): 75.



DAS MOHS'SCHE MINERALSYSTEM, 1853

**2617. Supplement, 1854:** Supplement | zu dem Werke: | Das | Mohs'sche Mineralsystem, | dem | gegenwärtigen Standpunkt der Wissenschaft gemäss | bearbeitet | von | Dr. Adolf Kenngott, | Custos - Adjunkten am kais. königl. Hof-Mineralien-Cabinete etc. | [ornate rule] | Wien. | Verlag und Druck von Carl Gerold & Sohn. | 1854.

8°:  $\pi^8$  2<sup>8</sup> 3<sup>4</sup>; 20 $\ell$ .; [i]-iv, [5]-38, [2] p. PAGE SIZE: 224 x 146 mm. VERY SCARCE.

CONTENTS: [i-ii], Title page, verso blank.; [iii]-iv, "Vorbemerkung."; [5]-38, Text.; [2] pgs], Publisher's list.

REFERENCES: NUC: **293**, 397-9 [NK 0096090].

### 2618. — German, 1856.

Sechzig Krystallformennetze zum Anfertigen von Krystallmodellen. Erste Hefte. Vierte Auflage. Wien, R. Lechner, 1856.

4°: 7 p. VERY SCARCE. Paper Crystal models.

REFERENCES: NUC: **293**, 397-9 [NK 0096087].

**2619. Sechzig, 1865:** 60 [Sechzig] Krystallformennetze zum Anfertigen von Krystallmodellen. Erste Hefte. 13th Auflage. Wien, 1865.

4°: 7 p. VERY SCARCE. Paper Crystal models.

REFERENCES: NUC: **293**, 397-9 [NK 0096088].

**2620. 1873:** 60 | Krystallformennetze | zum | Anfertigen von Krystallmodellen. | [ornate rule] | Für | Schüler und Hörer an Lehranstalten jeder Art, so wie zum | Gebrauche für Lehrer bei den Vorträgen. | Entworfen und herausgegeben | von | Dr. Adolf Kenngott. | Erstes Heft. | [rule] | Zweiundzwanzigste Auflage. | [rule] | [ornate rule] | Wien. | Verlag und Rudolf Lechner's Universitäts-Buchhandlung. | 1873.

Housed within a card board slip case measuring 240 x 160 mm. [Text] 8°: [1]-7, [1] p., 10 large folding diagrams with 6 stereonets of each showing specific minerals. PAGE SIZE: 240 x 160 mm. VERY SCARCE. Paper Crystal models.

CONTENTS: [1-2], Title page, verso blank.; [3]-5, Text.; [6]-7, "Bemerkung | über die | Anfertigung der Krystallmodelle."; [1 pg], Blank.

### 2621. — German, 1924.

Ausgewählte Netze von Kristallgestalten zum Anfertigen von Kristall-Modellen aus Pappe; mit einer Anleitung zum Zusammenkleben derselben, entworfen von Dr. A. Kenngott ... 4. Auflage. Esslingen: J.F. Schreiber, [1924?].

8°: [2] p., 28 plates. VERY SCARCE. Paper Crystal models.

REFERENCES: NUC: **293**, 397-9 [NK 0096069].

### Illustrierte Mineralogie

In 1859, Johann Gottlob Kurr published *Das Mineralreich* a very popular coffee table book that beautifully illustrated minerals on 25 color plates. After Kurr's death, Kenngott took on the role of author and the result were these four issues that contain essentially the same text. Variations on the title pages differentiate the various issues.

### 2622. — German, c1890 [Issue A].

Illustrierte | Mineralogie | 24 Tafeln mit 490 kolorierten Abbildungen nebst | erläuterndem Text | zum Anschauungsunterricht | für die Jugend in Schulen und Familien | von Dr. A. Kenngott | Professor der Mineralogie am | eidgenössischen Polytechnikum | und an der Universität in Zürich | Vierte verbesserte Auflage | [ornament] | Verlag von J.F. Schreiber in Eßlingen und München.

4°: [8], [1]-74, [4] index p., 24 chromolithographic plates of minerals. PAGE SIZE: 325 x 210 mm.

CONTENTS: [1 pg], Half title page, "Mineralogy."; [1 page], Series title page, "Naturgeschichte des | Tier-Pflanzen- und Mineralreichs | in kolorierten Bildern nebst erläuterndem Text mit | 680 Abbildungen und 6 geologischen Landschafts- | bildern auf 42 Tafeln [ornament] Dritte Abteilung: | Naturgeschichte des Mineralreichs in 2 Teilen | Erster Teil: Mineralogie | Verlag von J.F. Schreiber in Eßlingen und München."; [1 pg], Title page.; [1 pg], "Das Recht zur Herausgabe ..."; [1 pg], "Vorwort."— signed A. Kenngott.; [1 pg], Blank.; [2 pgs], "Inhalts-Uebersicht."; [1]-74, Text.; [4 pgs], "Namenverzeichnis.";

SCARCE. This finely illustrated volume is divided into two sections. The first is the introduction which covers the forms of minerals and crystals, hardness, specific gravity, properties dependent on light and color, electricity, magnetism, and heat, chemical relations and a table of chemical elements. The remainder of the text is devoted to special or descriptive mineralogy. Here the various species and mineral groups are described. These include precious stones, hornblende or augite minerals, feldspathic minerals, zeolithic minerals, micaceous minerals, calcareous minerals, compounds of baryta, compounds of strontia, salts of potash, salts of soda, salts of magnesia, salts of ammonia, combustible minerals, and metallic minerals or ores.

The chromolithographic plates, first prepared in 1859 are reproduced in beautiful renderings. See Kurr, Johann Gottlob for additional information.

REFERENCES: BL. • NUC.

**2623. Issue B, c1890:** Illustrierte | Mineralogie. | 24 Tafeln mit 490 kolorierten Abbildungen | nebst erläuterndem Text | von Dr. A. Kenngott, | Professor der Mineralogie am eidgenössischen Polytechnikum und an der Universität in Zürich. | Zum | Anschauungs-Unterricht für die Jugend | in | Schulen und Familien. | [ornate rule] | Vierte verbesserte Auflage. | [ornate rule] | Eßlingen bei Stuttgart. | Verlag von J.F. Schreiber.

4°: [8], [1]-74, [4] index p., 24 chromolithographic plates of minerals. SCARCE.

REFERENCES: NUC: **293**, 397-9.

**2624. Issue C, c1890:** Naturgeschichte | des | Mineralreichs | für Schule und Haus. | [rule] | Erster Teil: | Mineralogie. | 24 Tafeln mit 490 kolorierten Abbildungen nebst erklärendem Text | von Dr. A. Kenngott, | Professor der Mineralogie am eidgenössischen Polytechnikum in Zürich. | Vierte verbesserte Auflage. | Zweiter Teil: | Geologie und Paläontologie. | 18 Tafeln mit 193 kolorierten Abbildungen und 6 geologischen Landschaftsbildern | nebst erläuterndem Text | von Dr. Fr. Rolle. | [ornate rule] | Eßlingen bei Stuttgart. | Verlag von J.F. Schreiber.

4°: [8], [1]-74, [4] index p., 24 chromolithographic plates of minerals. SCARCE.

**2625. Issue D, c1890:** Naturgeschichte des | Mineralreichs | für Schule und Haus. | [rule] | Erster Teil: Mineralogie. | 24 Tafeln mit 490 kolorierten Abbildungen | nebst erklärendem Text von Dr. A. Kenngott, | Professor der Mineralogie am eidgenössischen Polytechnikum in Zürich. | [Ornament on either side of the line of text] Vierte verbesserte Auflage. | [rule] | Zweiter Teil: Geologie und Paläontologie. | 18 Tafeln mit 193 kolorierten Abbildungen und 6 geologischen | Landschaftsbildern nebst erläuterndem Text von Dr. Fr. Rolle | [ornament] | Verlag von J.F. Schreiber in Eßlingen und München.

4°: [8], [1]-74, [4] index p., 24 chromolithographic plates of minerals. SCARCE. Probably a later edition as the publisher has expanded to Munich from Eßlingen.

REFERENCES: NUC: **293**, 397-9.

Das Mineralreich in Bildern. Naturhistorisch= technische Beschreibung und Abbildung der wichtigsten Minerale von Dr. J.G. v. Kurr ... Dritte Auflage. Bearbeitet von Dr. A. Kenngott ... (Eßlingen, 1878, and other editions).

See: Kurr, Johann Gottlob Von.

## 2626. — German, 1882-7.

Handwörterbuch | der | Mineralogie, | Geologie | und | Palaeontologie | Herausgegeben | von | Prof. Dr. A. Kenngott | unter mitwirkung | von | Prof. Dr. von Lasaulx und Dr. Rolle. | [rule] | Mit Holzschnitten und Lithographischen Tafeln. | Erste Band. | [double rule] | Breslau, | Verlag von Eduard Trewendt, 1882.

3 vols.

SCARCE. Dictionaries – mineralogical. Added titlepage: Encyclopaedie der Naturwissenschaften ...

REFERENCES: NUC: **293**, 397-9 [NK 0096077].

**KENTMAN, Johann.** (BORN: Dresden, Germany, 21 April 1518; DIED: Dresden, Germany, 15 June 1574) *German geologist and physician.*

Kentman first studied medicine at the University of Leipzig then went to the University of Bologna in Italy where he received his M.D. in 1549.

REFERENCES: Poggendorff: 1, col. 1243. • Sarjeant, *Geologists*, 1980: 2, 1436. • *World Who's Who in Science*: 924.



KEPLER

Nomenclaturæ Rerum Fossilium quæ in Misnia præcipuè et in aliis quoque regionibus inveniuntur. (Tigvri, 1565).

See: Gesner, Conrad.

**KEPLER, Johannes.** (BORN: Weil der Stadt, Württemberg, Germany, 27 December 1571; DIED: Regensburg, Bavaria, Germany, 15 November 1630) *German astronomer.*

One of the great geniuses of humanity, Kepler studied theology and classics at the University of Tübingen. There he became interested in mathematics and astronomy and became an adherent of the heliocentric theory of planetary motion first developed by the Polish astronomer Nicolaus Copernicus. Kepler accepted Copernican theory immediately, believing that the simplicity of Copernican planetary ordering must have been God's plan. In 1594, when Kepler left for Graz, Austria, he worked out a complex geometric hypothesis to account for distances between the planetary orbits-orbits that he mistakenly assumed were circular. Kepler later deduced that planetary orbits are elliptic; nevertheless, these preliminary calculations agreed with observations to within 5 percent. Kepler then proposed that the sun emits a force that diminishes inversely with distance and pushes the planets around in their orbits. Kepler published his account in a treatise entitled *Mysterium Cosmographicum* (Cosmographic Mystery) in 1596. This work is significant because it presented the first comprehensive and cogent account of the geometrical advantages of Copernican theory.

Kepler held the chair of astronomy and mathematics at the University of Graz from 1594 until 1600, when he became assistant to the Danish astronomer Tycho Brahe in the latter's observatory near Prague. On the death of Brahe in 1601, Kepler assumed his position as imperial mathematician and court astronomer. In 1612 Kepler became mathematician to the states of Upper Austria. Relocated to Linz, Austria, he began publishing a book that took three years to appear. The *Epitome Astronomiæ Copernicanae* (Epitome of Copernican Astronomy, 1618-21), which brought all of Kepler's discoveries together in a single volume. Equally important, it became the first textbook of astronomy to be based on Copernican principles, and for the next three decades it was a major influence in converting many astronomers to Keplerian Copernicanism. Kepler also made contributions in the field of optics and developed a system of infinitesimals in mathematics, which was a forerunner of calculus.

REFERENCES: ADB. • DBA: I 640, 5-33; II 696, 1-147; II G 12, 12-14. • Gerber, *Historisch-biographisches Lexikon*,

1812-4. • Jöcher, *Gelehrten-Lexikon*, 1750-51. • NDB. • Poggendorff: 1, cols. 1243-5. • WBI.

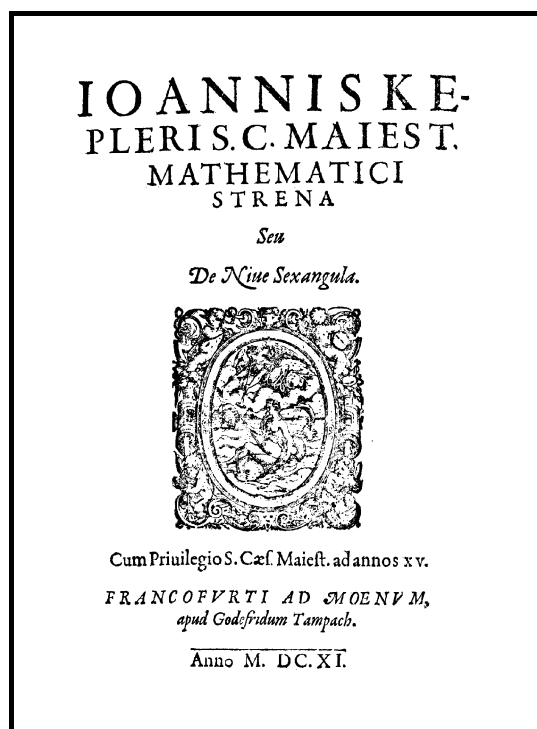
### Comprehensive Bibliography

#### 2627. — German, 1968.

Bibliographia | Kepleriana | Ein Führer | Durch Das Gedruckte Schrifttum Von | Johannes Kepler | Im Auftrag Der | Bayerischen Akademie Der Wissenschaften | Unter Mitarbeit | Von Ludwig Rothenfelder | Herausgegeben Von | Max Casper | Zweite Auflage | Besorgt Von Martha List | C.H. Beck'sche Verlagsbuchhandlung | München MCMLXVIII.

4°: [i]-xiv, [2], [1]-181, [3] p., 86 title page facsimiles on 43*l*.

VERY SCARCE. A highly regarded, well illustrated, comprehensive bibliography of the works by and about Kepler. The first part, listing 86 entries, describes in detail, Kepler's original writings. The second, nos. 87-185, provides a annotated list of the later editions, translations and compilations of the original works. The third section listing 574 numbers, is a bibliography of articles and books about Kepler. A name index is included as are reproductions of the title pages to the 86 entries given in the first section.



STERNA SEU DE NIUE SEXANGULA, 1611

#### Sterna Seu De Niue Sexangula

#### 2628. — Latin, 1611 [First edition].

Ioanniske- | pleris. C. Maiest. | Mathematici | Sterna | Seu | De Niue Sexangula. | [ornament] | Cum Priuilegio S. Cæs. Maiest. ad annos xv. | Francofvrti ad Moenvm, | apud Godefridum Tampach. | [rule] | Anno M. DC. XI.

4°: A-C<sup>4</sup>; 12*l*.; [1]-24 p., 3 woodcut illustrations and a woodcut device on the title page.

CONTENTS: [1-2], Title page, verso blank.; [3]-24, Text.

VERY RARE. Kepler's *Sterna Seu de Niue Sexangula* is the first scientific treatise concerning crystallography. This small tract, written in the form of a letter, was presented as a new year's gift to Matthaues Wackher von Wackenfels. In it Kepler ponders the problem of why snowflakes are always sixsided. But every explanation the author formulates, he also rejects and eventually Kepler concludes that the true explanation remains for future investigators to resolve. The crystallographic importance of this work arises from the author's discussions of space filling and symmetry. Published here for the first time are Kepler's discussions of how ordered symmetrical shapes arise from the packing together of similar bodies, even though the bodies are not symmetric themselves. Included in these observations are accounts of cubic and hexagonal closest packing, an important concept of modern crystallographic studies.

German transl., 1943: *Johannes Kepler, Sterna. Neujahrsgabe oder vom sechseckigen Schnee.* Unter Mitwirkung von M. Caspar und F. Neuhart. Übertragen von Fritz Rossmann. Berlin, W. Keiper, 1943. 8°: [1]-64 p., 12 illus., facsimile of 1611 title page.

English transl., 1966: *The | Six-Cornered | Snowflake | [ornament] | Johannes Kepler | Oxford | At The Clarendon Press | 1966.* 8°: [i]-xvi, [1]-74, [2] p., photos and text illustrations.

[i-ii], Half title page, "The Six-Cornered | Snowflake," verso blank.; [iii-iv], Title page, verso "Oxford University Press, ..."; [v]-vii, "Foreword."; [viii], "Acknowledgements."; [ix], "Contents."; [x], Blank.; [xi]-xiv, "Synopsis."; [xv], "Note On Text."; [xvi], Facsimile reproduction of the 1611 title page.; [1]-45, Text of translation with the Latin on the left and the English on the right hand facing page.; [46], Blank.; [47]-56, "On The Shapes Of Snow Crystals | A commentary on | Kepler's essay 'On the Six-Cornered Snowflake' | B.J. Mason."; [57]-63, "Kepler's Unsolved Problem And | The *Facultas Formatrix* | Lancelot Law Whyte."; [64], Blank.; [65]-74, "Notes."; [1 pg], "Bibliography."; [1 pg], "Printed in Great Britain | ..."

Annotated translation of the 1611 edition, with a long introduction giving details of the history of this work. The added essays Brian J. Mason and Lancelot Law Whyte describe the place Kepler's work holds in the development of crystallography.

REFERENCES: Burke, *Origins of the Science of Crystals*, 1966: 35 & 184. • Caspar, *Bibliographia Kepleriana*, 1968: no. 39. • *Freilich Sale Catalog*: no. 301. • Honeyman Sale: 5: 1786. • Kobell, *Geschichte der Mineralogie*, 1864: 7-8. • Roller & Goodman, *Catalogue*, 1976: 2, 3. • Smith, C.S. & J.G. Burke, ????: 36-43. • VD17: 23:286862M.

2629. 1619: Amphitheatrum | Sapientiae Socraticae Joco- seriae, | Hoc Est, | Encomia Et | Commentaria | Avtorum, Qva Veterum, | Qva Recentiorum Prope Omni- | vm: Qvibus Res, Avt Pro Vilibus Vvlgo | aut damno- sis habitae styli patrocinio vindicantur, | exornantur: Opvs

Ad Mysteria Natvræ Discenda, | adomnem amœnitatem, sapientiam, virtutem, publice pri- | uatimque vtilibumum: in | Dvos Tomos | Partim Ex Libris Editis, Partim Manv- | scriptis congestum triburumque, | à | Caspare Dornavio Philos. Et Medico. | [...2 lines of quotation...] | [ornament] | Cum gratia & priuilegio S. Casarta Maiestaris. | Hanoviae, | Typis Wechelianiis, Impensis Danielis ac Davidis | Aubriorum, & Clementis Schleichii. | [rule] | M. DC. XIX.

2 vols. [VOL 1] 2°: [12], 854 (i.e., 848) p., one plate. [VOL 2] 2°: 305, [3] p.

RARE. Edited by Casper Dornavius [see note below], this is one of the largest and most fascinating collections of the early modern times. Its text contains almost 700 diverse works including comic treatises, poems in Latin and German in praise of the unpraiseworthy, observations on the most varied animals, plants, minerals, personages of antiquity and on conditions and virtues of injustice, folly, fever, gout & envy. The introduction contains a biobibliographical essay about the contained authors. Kepler's treatise on the snowflake is reprinted in this collected work, volume I, pp. 751-757.

**Facsimile reprint, 1995:** *Amphitheatrum sapientiae socraticae joco-seriae. Schauplatz scherz- und ernsthafter Weisheiten.* Neudruck der Ausgabe Hanau 1619. Herausgegeben und eingeleitet von Robert Seidel. Goldbach 1995. 2 vols bound in one. 854 p.; 305, 48 p. Published as part of the series, *Texte der frühen Neuzeit*, 9.

**Caspar Dornau.** (BORN: Ziegenrück, Germany?, 11 October 1577; DIED: Görlitz, Germany [now Goritz, Italy], 28 September 1632) *German physician & philologist.* Dornavius was rector at the Gymnasium in Görlitz and bound in friendship to Kepler. In his last years he was a royal advisor and physician in Görlitz.

REFERENCES: Caspar, *Bibliographia Kepleriana*, 1968: no. 61. • VD17: 3:310172H. • Wellcome Catalog (Books): 1, no. 1857. (Dornau) ADB: 5, 351-2. • Caspar, *Bibliographia Kepleriana*, 1968: no. 61. • DBA: I 249, 129-139. • Jöcher, *Gelehrten-Lexikon*, 1750-51. • WBI.

**2630. 2nd edition, 1670:** *Amphitheatrum | Sapientiae Socraticae | So- | coseriae | Joco-Seriae, | Hoc est, | Encomia Et Commentaria, | Autorum, qua veterum, qua recentiorum prope omni- | um: Quibus res, aut pro vilibus vulgo aut damnosis habitae, styli | patrocinio vindicantur, exomantur: | Opus Ad Mysteria Naturæ Discenda, | adomnem amœnitatem, sapientiam, virtutem, publice pri- | vatimque utilissimum | In | Duos Tomos. | Partim ex libris editis, partim manuscriptis congestum tributumque, | à Caspare Dornavio, | Philosopho Et Medico. | [...2 lines of quotation...] | [ornament] | Francofurti Ad Moenm, | Apud Jacobum Godofredum Seyler. | [rule] | M. DC. LXX.*

2 vols.

RARE. Reprint of the 1619 edition?

REFERENCES: Caspar, *Bibliographia Kepleriana*, 1968.

**2631. 1907:** Des Kaiserlichen Mathematikers Johannes Kepler Neujahrsgeschenk oder Über die Sechseckform des Schnees. 1611. Aus dem Lateinischen übersetzt und mit Anmerkungen versehen von R. Klug. 56. Jahresbericht des K.K. Staats-Gymnasiums zu Linz. Linz, 1907.

8°: 1-30 p.

SCARCE. Translation of the 1611 edition by R. Klug, which originally appeared in the *Jahrsbericht des k.k. Staats-Gymnasium zu Linz* for the year 1907.

REFERENCES: Caspar, *Bibliographia Kepleriana*, 1968: no. 148.

**2632. 1943:** Johannes Kepler, Strena. Neujahrsgabe oder vom sechseckigen Schnee. Unter Mitwirkung von M. Caspar und F. Neuhart. Übertragen von Fritz Rossmann. Berlin, W. Keiper, 1943.

8°: [1]-64 p., 12 illus., facsimile of 1611 title page.

VERY SCARCE. German translation of the 1611 edition by Fritz Rossmann. Another German translation from the Latin by H. Strunz and H. Borm under the title, "Johannes

Kepler, Über den Hexagonalen Schnee" appeared in *Acta Albertina Ratisbonensis* (Regensburg), 22 (1958), pp. 5-35.

REFERENCES: Caspar, *Bibliographia Kepleriana*, 1968: no. 169.

**2633. English & Latin transl., 1966:** The | Six-Cornered | Snowflake | [ornament] | Johannes Kepler | Oxford | At The Clarendon Press | 1966.

8°: [i]-xvi, [1]-74, [2] p., photos and text illustrations.

PAGE SIZE: 234 x 152 mm.

CONTENTS: [i-ii], Half title page, "The Six-Cornered | Snowflake," verso blank.; [iii-iv], Title page, verso "Oxford University Press, ..."; [v]-vii, "Foreword."; [viii], "Acknowledgements."; [ix], "Contents."; [x], Blank.; [xi]-xiv, "Synopsis."; [xv], "Note On Text."; [xvi], Facsimile reproduction of the 1611 title page.; [1]-45, Text of translation with the Latin on the left and the English on the right hand facing page.; [46], Blank.; [47]-56, "On The Shapes Of Snow Crystals | A commentary on | Kepler's essay 'On the Six-Cornered Snowflake' | B.J. Mason."; [57]-63, "Kepler's Unsolved Problem And | The *Facultas Formatrix* | Lancelot Law Whyte."; [64], Blank.; [65]-74, "Notes."; [1 pg], "Bibliography."; [1 pg], "Printed in Great Britain | ..."

VERY SCARCE. Annotated translation of the 1611 edition, with a long introduction giving details of the history of this work. The added essays Brian J. Mason and Lancelot Law Whyte describe the place Kepler's work holds in the development of crystallography.

REFERENCES: Caspar, *Bibliographia Kepleriana*, 1968: no. 184.

**2634. 1858-71:** Joannis Kepleri | Astronomi | Opera Omnia | Edidit | D<sup>r</sup> Christian Frisch. | [rule] Volumem I. | [ornate rule] | Francofurti a.m. Et Erlangae. | Heyder & Zimmer. | MDCCCLVIII.

8 vols. Large 8°, with portrait of Kepler, one folding facsimile letter, a double-page plate of the signs of the zodiac, an engraved plate after the frontispiece to the *Tabulae Rudolphinae*, 2 lithographic plates with diagrams, and two folding tables.

VERY SCARCE. The first and standard edition of Kepler's collected works, compiled by Christian Frisch [see note below]. It required over 30 years for Frisch to gather the materials for these volumes, with the last one being published to commemorate the 300th anniversary of Kepler's birth. Only 800 sets including the 50 on fine paper were printed, making this item difficult to obtain. The *Sterna Seu De Nive Sexangula* appears in volume VII, p. 715-30.

**Modern collected works, 1941-1956:** Johannes Kepler | Gesammelte Werke | Band IV | Kleinere Schriften | 1602 / 1611 | Dioptrice | Herausgegeben Von | Max Casper Und Franz Hammer | C.H. Beck'sche Verlagsbuchhandlung | München MCMXXXI.

A modern reissue of Kepler's collected works.

**Christian Frisch.** (BORN: 1807; DIED: 1881).

REFERENCES: Caspar, *Bibliographia Kepleriana*, 1968: no. 129. • NUC. • Roller & Goodman, *Catalogue*, 1976. (Frisch)

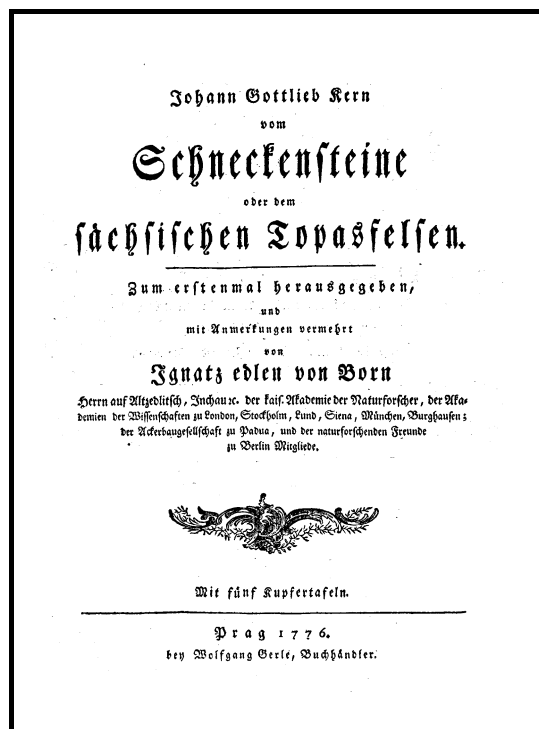
**2635. 1941:** Johannes Kepler | Gesammelte Werke | Band IV | Kleinere Schriften | 1602 / 1611 | Dioptrice | Herausgegeben Von | Max Casper Und Franz Hammer | C.H. Beck'sche Verlagsbuchhandlung | München MCMXXXI.

4°;

VERY SCARCE. A modern collected works edition of Kepler, edited by Max Casper and Franz Hammer and published under the auspices of the Bayerischen Akademie der Wissenschaften. The *Sterna Seu De Nive Sexangula* appears in volume IV, p. 259-80, with the 1611 title page reproduced in facsimile.

REFERENCES: Caspar, *Bibliographia Kepleriana*, 1968: no. 165.





SCHNECKENSTEINE, 1776

**KERN, Johann Gottlieb.** (BORN: ?; DIED: 1776)  
*German precious stone inspector.*

REFERENCES: DBA: I 641, 46-47; II 697, 80. • Jöcher, *Gelehrten-Lexikon, Supplement.* • Meusel, *Verstorbenen Teutschen Schriftsteller*, 1802-16. • NDB. • Poggendorff: 1, col. 1247. • WBI.

**2636. — German, 1776** [First edition].

Johann Gottlieb Kern | vom | Schneckensteine | oder dem | sächsischen Topasfelsen. | [rule] | Zum erstenmal herausgegeben, | und | mit Anmerkungen vermehrt | von | Ignatz edlen von Born | [...4 lines of titles and memberships...] | [ornament] | Mit fünf kupfertafeln. | [rule] | Prag 1776. | bey Wolfgang Gerle, Buchhändler.

8°: [8], 49, [1] errata p., 5 folding plates showing cross sections of the gem bearing veins. PAGE SIZE: 250 x 192 mm.

RARE. Edited by Ignaz Edler von Born, this is the first comprehensive study of the famous topaz deposit at the Schneckenstein in Saxony, the source of many mineral specimens of crystals. The work was edited and published by Baron Ignatz von Born after the death of Kern in 1775. The interesting folding plates show the columnar rock mass from four cardinal points of the compass, the final plate depicts specimens of crystals.

REFERENCES: Agassiz, *Bibliographia Geologiae*, 1848-54: 3, 354. • BMC: p. 971. • NLM 17th Century Books (Krivatsy): no. 3373.

**2637. 2nd edition, 1792:** Johann Gottlieb Kern vom Schneckensteine oder dem sächsischen Topasfelsen. Zum

erstenmal herausgegeben und mit anmerkungen vermehrt, von Ignatz Edlen von Born ... Neue Auflage. Dresden, 1792.

8°:

VERY RARE. Second edition, edited by Ignaz Edler von Born. About topaz from Saxony.

REFERENCES: LKG: XIV 199.



BERICHT VOM BERGBAU, 1772

**2638. — German, 1772.**

Bericht vom Bergbau. | [Large ornament] | [double rule] | Leipzig, | bey Siegfried Leberecht Crusius, | 1772.

8°: 4°. [16], 312 p., engraved title page, 18 folding plates.

RARE. Published anonymously, but widely attributed to Kern.

REFERENCES: *Freilich Sale Catalog*: no. 304. • Hoover Collection: no. 475. • Zeitlinger & Sothoran, *Bibliotheca Chemico*, 1921-52: no. 2279.

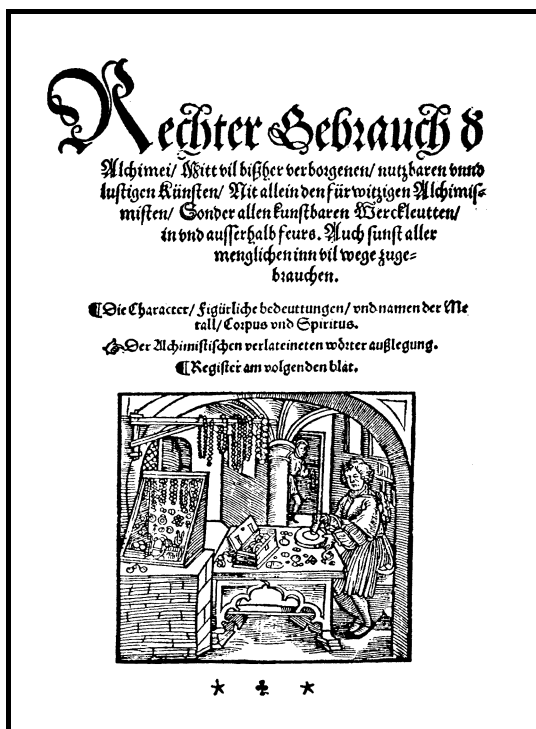
**KERTZENMACHER, Petrus.**

**2639. — German, 1531** [First edition].

Rechter Gebrauch d' | Alchimei, Mitt vil vissher verborgen, nutzberen vnnd | lustigen Künsten, Nit allein den fürwitzigen Alchimis= | misten, Sonder allen kunstbaren Werckleutten, | in vnd ausserhalb feurs. Auch sunst aller | menglichen inn vil wege zuge= | brauchen. | ¶ Die Character Figürliche bedeutungen, vnd namen der Me | tall, Corpus vnd Spiritus. | ¶ Der Alchimistischen verlateineten wörter ausslegung. | ¶ Register am volgenden blat. | [vignette] | [three ornaments].

4°: [i]-xxviii.; 27l.; no pagination. The date M.D.XXXI. is on the verso of folio xxvii. A vignette of a jeweller's shop on the title.

CONTENTS: Folio 1r, Title page.; Folios 1v-2v, Symbols and names of metals, a list of some Latin alchemical words



RECHTER GEBRAUCH D' ALCHIMEI, 1531

with meanings and the table of contents.; Folios 3r-27v, Text.

VERY RARE. This is the first in a series of books whose text was perennially copied, abstracted, enlarged and incorporated into books of differing titles down to the 18th century. Sometimes Kertzenmacher's name was invoked in these works or as in this first appearance other times not. Based upon the reuse of the typeface, floral motifs and a woodcut with in the text, Ferguson (1888) assigns this first printing to the Frankfurt-am-Main publisher Christian Egenolph, whose establishment would print several other editions and reworkings of the text through out the 16th century.

The contents of the book are of an entirely practical nature with little speculative alchemy. This is affirmed in the title of this little work that says the correct use of alchemy was not solely to transmute the metals, but to produce different substances that were in demand for every day uses. It is a collection of chemical receipts that probably had long been known to alchemists, metallurgists and others but had never before been categorized and laid before the public. Therefore the work paints a fairly accurate picture of the practical chemical knowledge at the beginning of the 16th century. Although not directly related to mineralogy, these little receipt books that dealt with alchemy, assaying, mining and such had the very practical value of disseminating techniques in chemical processes to a large audience. This in turn would

influence the development of mineralogy, metallurgy and chemistry as they in turn became true scientific disciplines.

The receipts are not arranged in any regular fashion, but may be divided into two main headings: 1. substances and 2. processes. Among the substances mentioned are gold, silver, mercury, antimony, tin, lead, bismuth, copper and iron. Operations mentioned are combinations that made brass, amalgams of gold and silver, and the separation of gold by aquaregia. The processes described are all simple in nature, and relate mainly to gilding, tinning, silvering, oxidizing the various metals, precipitation, crystallization, roasting, fusion, and cupellation. In no instance is any explanation provided of why the process works, not even in rudimentary concept. This would be left for the chemists of later years to work out.

Facsimile reprint, c1970: *Rechter Gebrauch der Alchimei*. Neuwertig. Mitt vil bißher verborgen. nutzbaeren unnd lustigen Künsten. Mit allein den für witzigen Alchimisten. Sonder allen kunstbaeren Werckleuten in und ausserhalb feurs. Auch sunst aller menglichen inn vil wege zugebrauchen. Die Charakter Figürliche bedeutungen und namen der Metall Corpus und Spiritus. Der Alchimistischen verlateineten wörter außlegung. Wien, Edition Totius Mundi, c1970. 60, [2] p., XXVII<sup>l</sup>. Facsimile of the Frankfurt 1531 edition.

REFERENCES: Darmstädter, *Berg-Büchlein*, 1926: p. 66 [title page reproduced, p. 71]. • Ferguson, *Treatises on Technological Chemistry*, c2002: 1888, pp. 1-8 [Suppl. 4, 1913, after p. 43, title page reproduced]. • Rosenthal, *Bibliotheca Magica et Pneumatica*, 1907: no. 345. • VD16: R-492.



ALCHIMI VND BERGWERCK, 1534

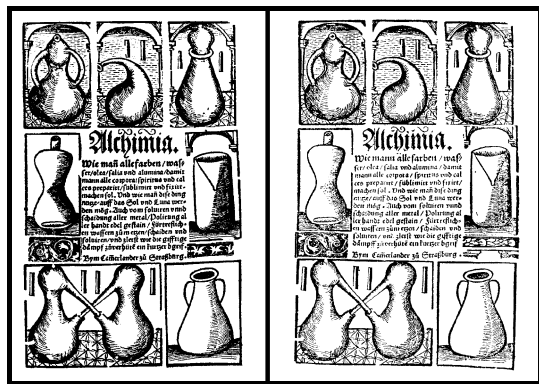
**2640. 1534:** Alchimi vnd Berg | werck. | Wie alle farben/ wasser/ olea/ salia vnd aluimina/ da= | mit mañ alle corpora/ spiritus vnd calces preparirt/ sublimirt/ vnd fi= | xirt/ gemacht sollen werden/ lert das erst büch. | Das ander büch zeygt an/ wie mañ dise ding nütze/ auff das Sol vnd | Luna werden mdg. Vnd vom soluiren auch scheydung aller metal/ Po= | luring aller handt edel gesteyn/ Fürtrefflichen wassern züm erzen/ schey= | den vnd soluiren/ vnd zülest wie die giftige dämpff der metal zü ver= | hüten/ auß Archilao/ Kolenos &c. eyn kurtzer begrieff. | [Large rectangular woodcut showing an assayer before the fire and a mine scene.] | Zü Straßburg bei Jacob Cammerlander. M D. xxxiiii.

4<sup>o</sup>: A-L4; 44l.; [4]l., Folios i-xl.

CONTENTS: A1r, Title page.; A1v, Blank.; A2r-A2v, Preface, signed by Petrus Kertzenmacher.; A2v-A3v, Index.; A4, Blank.; Folios i-xl, Text, beginning "Rechter Gebrauch der Alchemie."

VERY RARE. "Of the utmost rarity" according to Duveen, this is an early treatise on the practical applications of technological chemistry, including the manufacturing of colors, poisons and asphyxiating gases. The second portion describes the transmutation and separation of gold and silver. Appended to the work is a treatise by Gilbertus Cardinal giving information on methods of putting metals into solution and the polishing of gemstones. Ferguson did not know of this edition, and he thought the first appearance was in 1539.

REFERENCES: Darmstädter, *Berg-Büchlein*, 1926: 47 & 74. • Duveen, *Bibliotheca Alchemica et Chemica*, 1965: p. 317. • Duveen, D.I., "The first two editions of 'Alchimia', by Petrus Kertzenmacher," *The Library*, 5th Series, 1 (June, 1946), no. 1, p. 59, 2 figs. • Ferchl: p. 271. • Ferguson, *Bibliotheca Chemica*, 1906: 1, 19. • Freilich Sale Catalog: no. 325 [reproduces the title page].



ALCHIMIA, 1538

ALCHIMA, 1539

**2641. 1538:** [Contained within a frame of eight small woodcuts showing various vessels:] Alchimia. | Wie mañ alle farben / was= | ser olea / salia vnd aluimina / damit | mann alle corpora/ spiritus vnd cal | ces preparirt/ sublimirt vnd fixirt= | machen sol. Vnd wie mañ dise ding | nütz=auff das Sol vnd Luna wer= | den mög. Auch vom soluiren vnd | schaidung aller metal/ Polirung al | ler handt edel gestain/ fürtrefflich= | en wassern züm etzen/ schaiden vnd | soluiren/vnd zlerst wie die giftige | dämpf züverhüte ein kurtzer bgrif. | Bym Camerlander zü Straßbürg.

4<sup>o</sup>: A-M4; 48l.; Folios [4], i-xli, [3]. VERY RARE.

CONTENTS: A1r, Title page.; A1v, Blank.; A2r-A2v, "Petrus kartzemacher | etwan burger zü Mentz, ein berühmter Al | chemist, wünscht dem Leser alles güts. ... woodcut of a 'circulatorium' and a jar.; A3r, Woodcuts of 'Calcinir offen, Violglass' and 'Circulirglass.';

A3v, Woodcuts of 'Alembicus rostratus, Circulatorium, Referbr offen, Cucurbita, Pellican.'; A4r, Woodcut of a furnace, a still with alembic and receiver, practically the Offen, Cucurbita, Alembicus and Violglass combined.; A4v, Woodcut of 'Balneum Mariæ.'; Folios j-xviii/=-B1r-F2v, Text begins: "Rechter gebrauch der Al | chimei, mit vil bisscher verborgnen, nutzbaren und lusti | ..."; Folios xix-xlj/=-F3r-M1v, Text beginning: "Vorred in dz ander büch." (ends with the colophon and a woodcut.); M2r-M2v, "Register disz buchs."; M3r, Woodcut, "Figur dess faulen Heintzens."; M3v, Woodcut, "Schaid offen."; M4r, Woodcut, 'Balneum Mariæ,' different than the one found on A4v.; M4v, Cammerlander's printer device being a winged draped female figure with a bend over her eyes, standing on a ball over a landscape, and carrying a shield in her right hand.

REFERENCES: Duveen, D.I., "The first two editions of 'Alchimia', by Petrus Kertzenmacher," *The Library*, 5th Series, 1 (June, 1946), no. 1, p. 59, 2 figs. • Ferguson, *Treatises on Technological Chemistry*, c2002: 1888, p. 12 & suppl. 2, 1910, pp. 1-10. • Honeyman Sale: no. 1808.

**2642. Strassbürg, 1539:** [Contained within a frame of eight small woodcuts showing various vessels:] Alchimia. | Wie mañ alle farben / was= | ser olea / salia vnd aluimina / damit | mann alle corpora/ spiritus vnd cal | ces preparirt/ sublimirt vnd fixirt= | machen sol. Vnd wie mañ dise ding | nütz=auff das Sol vnd Luna wer= | den mög. Auch vom soluiren vnd | schaidung aller metal/ Polirung al | ler handt edel gestain/ fürtrefflich= | en wassern züm etzen/ schaiden vnd | soluiren/vnd zlerst wie die giftige | dämpf züverhüte ein kurtzer bgrif. | Bym Camerlander zü Straßbürg.

4<sup>o</sup>: A-M4; 48l.; Folios [4], i-xli, [3]. COLOPHON (folio xli/=-M1v): "Gedruckt zü Strassbürg bei M. Jacob Cammerlan- | dern von Mentz Anno M.D. XXXjX."

CONTENTS: Same as 1538 edition.

VERY RARE. The 1538 edition was reprinted in 1539 with an identical title within almost the same frame.

REFERENCES: Darmstädter, *Berg-Büchlein*, 1926: 78. • Ferguson, *Treatises on Technological Chemistry*, c2002: suppl. 2, 1910, pp. 1-10.

**2643. 1540:** Alchimia. Wie | man alle farben/ wasser/ olea | salia/ vnd aluimina/ damit man alle cor= | pora/ spiritus vnd calces preparirt/ sub= | limirt vnd fixirt/ machen sol. Vnd wie | man dise ding nutze/ auf das Sol vñ Lu= | na werden mög. Auch vom soluiren/ vnd | schaidung aller metal/ Polirung aller | hand edelgestain/ Fürtrefflichen wassern | zum erzen/ schaiden vnd soluiren/ vnd zü | lerst wie die giftige dämpff zü ver= | hüten/ ein kurtzer begrieff. | [Large rectangular woodcut scene showing an alchemist in his laboratory.]

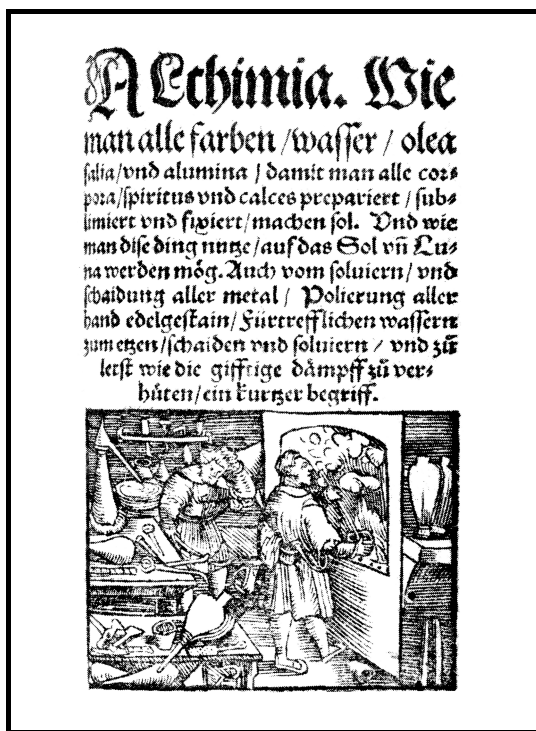
8<sup>o</sup>: [8], 60l., 8 full page and 9 small text woodcut illus.

VERY RARE. The first illustrated edition, and the first naming the author in the preface. It is an edition unknown to other bibliographers. VD16, K-779 lists an edition of 1546 with the same collation. All previous editions are unillustrated. In this edition, the illustrations show the distillation process, and various chemical operations.

REFERENCES: Zisska Auctioneers: cat. 32 (1998), no. 7377.

**2644. 1570:** Alchimia, | Das ist, | Alle Far= | ben, Wasser, O= | lea, Salia, vnd Aluimina, damit man alle Cor= | pora, Spiritus vnd Cal= | ces Preparirt, Sublimirt vnd Fi= | xirt zubereyten. | Vnd wie man di= | ese Ding nütze, auff dasz Sol | vnd Luna werden | möge. Auch von Soluieren vnd schey= | dung aller Metall, Polirung allerhandt | Edelgestein, fürtrefflichen Wassern zum Etzen, | scheyden vnd Soluieren. | Vnd zuletzt wie die | giftige Dämpff zuerhüten, ein kur= | tzer bericht, &c. | Cum Gratia & Priuilegio Imperiali. | Zu Franckfort am Meyn. | M. D. LXX.

8<sup>o</sup>: 79 leaves, illus. Title in red and black; head and tail-pieces; initials. COLOPHON: "Zu Franckfort am Meyn,



ALCHIMIA, 1540

Bey | Christian Engenolffs Erben." VERY RARE.

REFERENCES: Ferguson, *Bibliotheca Chemica*, 1906: 1, 19. • Ferguson, *Treatises on Technological Chemistry*, c2002: 1888, pp. 16-19.

**2645. 1574:** Alchimia, | Das ist, | Alle Far= | ben, Wasser, O= | lea, Salia, vnd Alvimina, damit man alle Cor= | pora, Spiritus vnnnd Cal= | ces Prepariert, Sublimiert vnnnd Fi= | xiert zubereyten. | Vnnnd wie man di= | se Ding nütze, auff dasz Sol | vnd Lvna werden | möge. | Auch von Soluieren vnnnd schey= | dung aller Metall, Polierung allerhandt | Edelgestein, fürtrefflichen Wassern zum Etzen, | scheyden vnnnd Soluieren. Vnnnd zuletzt wie die | giftige Dämpff zuuerhüten, ein kur= | tzer bericht, &c. | Cum Gratia & Priuilegio Imperiali. | Zu Franckfort am Mayn. | M. D. LXXIII.

8°: ff. 79, [1]; 80ℓ. Title in red and black. Woodcuts of still and furnaces. COLOPHON: "Getruckt zu Franckfurt | am Mayn, bey Christian Ege- | nolffs Erben, In verlegung D. Adami | Loniceri, M. Johannis Cnipij, vnd Pauli | Steinmeyers, Jm jar nach der | Geburt Christi vnsers | Erlösers, | M. D. LXXIII."

VERY RARE. A reprint of the 1570 edition.

REFERENCES: BL. • Ferguson, *Treatises on Technological Chemistry*, c2002: 1888, p. 20. • Rosenthal, *Bibliotheca Magica et Pneumatica*, 1907: no. 475.

**2646. 1589:** Alchimia, | Das ist, | Alle Far- | ben, Wasser, | Olea, Salia | vnnnd Alvimina, | damit man alle Corpora, Spi- | ritus vnnnd Calces Prepariert, | Sublimieret vnnnd Fixiert, zubereyten. | Vnd wie man diese ding nutze, auff | dass Sol vnd Lvna wer- | den möge. | Auch von Soluieren vnnnd schey- | dung aller Metall, Polierung allerhandt | Edelgestein, fürtrefflichen Wassern zum Etzen, | scheyden vnnnd Soluieren. Vnnnd zuletzt wie die | giftige Dämpff zuverhüten, ein kur- | tzer bericht, &c. | Cum Gratia & Priuilegio Imperiali. | Getruckt zu Franckfort am Mayn, | M.D. LXXXIX.

8°: [1], 2-79, [2] p., illus. Title in red and black;

head and tail-pieces; initials. COLOPHON: "Zu Franckfort am Meyn, Bey | Christian Egenolffs Erben."

VERY RARE. According to Ferguson, this is the 4th issue of Kertzenmacher's book. Early work on minerals and mining, still full of supernatural belief but also full of observations and facts gained from nature and experience. The first edition, with the title still beginning with: "Alchimi und Bergwerck", was published in 1539 at Strassburg by Jacob Cammerlandern. Ferguson states that the preface revealing the author's name was only added since the edition of 1570, but Duveen proved that is was already present in the second edition of 1546, which he had in his collection. This preface is headed as follows: "Petrus Kertzenmacher, etwann Bürger zu Meyntz, ein berühmpter Alchimist, wünscht dem Leser alles guts". On the person of Kertzenmacher however, nothing is known. He compiled his book from a number of earlier works, including the *Rechter Gebrauch d'Alchimei* from 1531. The book gives numerous recipes on colours, oils, distilled waters, and all sorts of minerals and metals, including a large section devoted to the transmutation and separation of gold and silver, and at the end a treatise by Gilbertus Cardinal is added on solution of metals, polishing of gems, and other practical applications of chemistry.

REFERENCES: Ferguson, *Treatises on Technological Chemistry*, c2002: 1888, p. 23.

**2647. 1720:** Des berühmten | Alchimisten, | Petri Kertzenmachers, | Alchimia, | Das ist | Alle Farben, | Wasser, Olea, Salia und | Alumina, | Damit man alle Corpora Spiritus und | Calces præparirt, sublimirt, und fixirt | zu bereiten, | Und wie man diese Dinge nutze, | Auf dasz Sol und Luna | werden möge, | Auch von Solviren und Scheidung aller | Metall, Polirung allerhand Edelgesteine, fürtreffi- | chen Wassern zum Etzen, Scheiden und | Solviren. | Dem noch beygefüget | Ein kurtzer Bericht, wie dei giftigen | Dämpffe zu verhüten. | Anno 1720.

8°: Aaa-Iii<sup>8</sup>; 31ℓ.; [2], 60 p., 8 text woodcuts. Title in red and black. Ferguson gives 8°: [2], 109, [3] index p.

RARE. Published in Leipzig by Cörners Erben in 1720, this is a reprint of the edition of 1570. SEE FERGUSON

REFERENCES: Ferguson, *Treatises on Technological Chemistry*, c2002: 1888, p. 29. • Zisska Auctioneers: cat. 36 (2000), no. 1055.

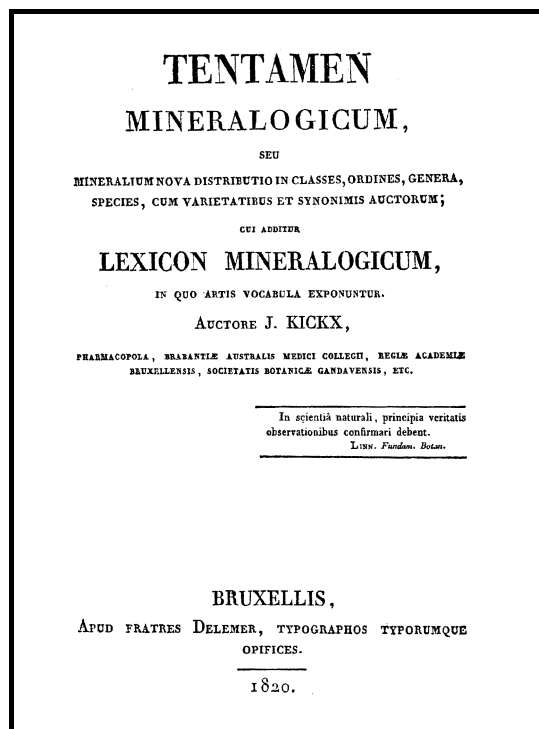
**KICKX, Jean.** (BORN: Brussels, Belgium, 9 March 1775; DIED: Brussels, Belgium, 27 March 1831) *Belgian mineralogist.*

Kickx was professor of minerology and botany at the Museum of Science and School of Medicine in Brussels. In 1817, he was elected a member of the Belgian Academy of Science.

REFERENCES: BAB: 370, 420-425. • *Biografisch Woordenboek België*. • *Biographie Universelle*. • Kickx, J., "Prologue consacré à la Mémoire de J. Kickx 1775-1831," *La Belgique Horticole*, 6 (1856), 1-16. • *Nouvelle Biographie Générale* (Hoefer). • Poggendorff: 1, col. 1253. • WBI.

**2648. — Latin, 1820.**

Tentamen | Mineralogicum, | Seu | Mineralium Nova Distributio In Classes, Ordines, Genera, | Species, Cum Varietatibus Et Synonymis Aucto- rum; | Cui Additur | Lexicon Mineralogicum, | In Quo Artis Vocabula Exponuntur. | Auctore J. Kickx, | Pharmacopola, Brabantiae Australis Medici Collegii, Regiae Academiae | Bruxellensis, Societatis Botanicae Gandavensis, Etc. | [rule] | [...2 lines of Latin quotation, signed on the third line, "Linn. Fundam. Botan."] | [rule] | Bruxellis, | Apud fratres



TENTAMEN MINERALOGICUM, 1820

Delemer, Typographos Typorumque | Opifices. | [rule] | 1820.

4°: \*4 [1]-244 253; 113ℓ.; [4], i-xij, [1]-208, [2] p.

PAGE SIZE: 214 x 130 mm.

CONTENTS: [2 pgs], Half title page, "Tentamen | Mineralogicum," verso "Nullum exemplar genuinum agnosco, nisi propriâ | manu signatum."; [2 pgs], Title page, verso blank; [i]-xij, "Præfatio."; [1]-12, "Lexicon Mineralogicum, | seu | Artis Vocabulorum Expositio."; [13]-180, "Tentamen | Mineralogicum."; [181]-208, "Index Generum | Cum Speciebus Subjectis."; [1 pg], "Errata."; [1 pg], Blank.

SCARCE. A standard textbook of mineralogy which uses a classification of classes, orders, genera, and species. Listed with each species are the synonymes by which it is known and locality information. At the beginning of the book there is a glossary of terms used in mineralogical science. At the conclusion is an index to the mineral species described.

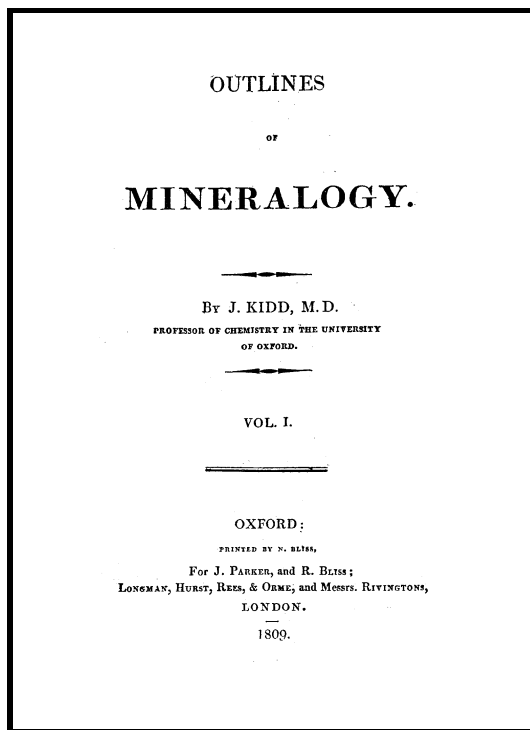
REFERENCES: BMC: 2, 976.

**KIDD, John.** (BORN: London, England, 10 September 1775; DIED: Oxford, England, 17 September 1851) *English physician & chemist.*

Kidd received his M.D. degree from Oxford in 1801. In 1803, he was made professor of chemistry at Oxford, where the duties required that he also present lectures in mineralogy and geology. Kidd was the first to distill naphthalene from coal tar in 1819.

REFERENCES: Allibone, *Dictionary of English Literature*, 1859-71. • *Annual Register*. • BBA: I 645, 136-142; II 1594, 197. • Boase, *Modern English Biography*, 1892-1921. • DNB. • DSB: 7, 365-6 [by J.M. Edmonds]. • *Encyclopaedia Britannica*, 11th edition. • NDB. • Poggendorff: 1, col. 1253.

• Sarjeant, *Geologists*, 1980: 2, 1444. • Watt, *Bibliotheca Britannica*, 1824. • WBI. • *World Who's Who in Science*: 930.



OUTLINES OF MINERALOGY, 1809

**2649. — English, 1809.**

Outlines | Of | Mineralogy. | [ornate rule] | By J. Kidd, M.D. | Professor Of Chemistry In The University | Of Oxford. | [ornate rule] | Vol. I. [-II.] | [double rule] | Oxford: | Printed by N. Bliss, | For J. Parker, and R. Bliss; | Longman, Hurst, Rees & Orme, and Messrs. Rivingtons, | London. | [short rule] | 1809.

2 vols. bound in one. [VOL 1] 4°:  $\pi^4$  b<sup>4</sup> c<sup>2</sup> 2b<sup>4</sup> 2c<sup>4</sup> d-f<sup>4</sup> B-Z<sup>4</sup> 2A-2K<sup>4</sup>; 158ℓ.; [i]-xvii, [3], [i]-xxxix, [1] blank, [1]-255, [1] p.; [VOL 2] 4°:  $\pi^4$  B-Z<sup>4</sup> 2A-2F<sup>4</sup> 2G<sup>2</sup> A<sup>4</sup> 2B-2G<sup>4</sup>; 146ℓ.; [i]-viii, [1]-227, [1] blank, [1]-39, [1] blank, [13], [1] blank, [1] errata, [1] blank p. PAGE SIZE: 210 x 124 mm.

CONTENTS: [Vol 1] [i-ii], Title page, verso blank; [iii]-iv, Dedication to the Dean of Westminster, signed J. Kidd, 16 January 1809.; [v]-ix, "Preface."; [x], "Authors | Referred To In The Following Volumes."; [xi]-xvii, "Contents of the First Volume."; [1 pg], Blank.; [1 pg], "Introduction."; [1 pg], Blank.; [i]-xxxix, Text of introduction.; [1 pg], Blank.; [1]-255, Text treating the Earthy minerals—at the bottom of page 255, "Printed by Nathaniel Bliss."

[Vol 2] [i-ii], Title page, verso blank.; [iii]-viii, "Contents of the Second Volume."; [1]-26, Text concerning Saline minerals.; 27-68, Text about the Inflammable minerals.; 69-227, Text describing the Metallic Substances.; [1 pg], Blank.; [1]-39, "Appendix. | Earthy Substances. |

Rocks.”; [1 pg], Blank.; [13 pgs], “Index.”; [1 pg], Blank.; [1 pg], Errata.; [1 pg], Blank.

VERY SCARCE. Probably written as a companion textbook to the mineralogical lectures delivered by the author at Oxford, *Outlines of Mineralogy* is a derivative work that reflects the state of mineralogy during the first decade of the nineteenth century. It is principally based upon the earlier mineralogical writings of RICHARD KIRWAN and RENÉ JUST HAÜY. For example, the system of classification that divides the mineral species has been lifted from Kirwan and uses the divisions of Earthy, Saline, Inflammable and Metallic Substances. An appendix handles rocks and other aggregates. The crystallographical information scattered through out is derived from Haüy.

REFERENCES: BMC: 2, 977. • NUC: 295, 348-9 [NK 0127232]. • Partington, *History of Chemistry*, 1961-70: 4, 76. • Porter, *Making of Geology*, 1980: 144, 183, 234 & 210. • *The Quarterly Review*: 2 (1809), no. 3, 61-74. • Smith, *Early Mineralogy in Great Britain*, 1978: 59. • Woodward, *History of Geology*, 1911: 45 & 66.

**KIESLING, Johann.** (BORN: Grünhayn in Erzgebirge, Germany, 1663; DIED: Borna, Germany(?), 1715) *German theologian.*

Kiesling was a professor of theology and philosophy at the University of Erfurt. He was superintendent of an education establishment in Borna when he died.

REFERENCES: Poggendorff: 1, col. ???.

**2650. Dissertation, 1697:** Dissertatio Admiranda naturae in regno minerali conspicua peregrinationum subterraneorum I. lustrata & observata sistens ... Johannes Kieslingius. [Resp.:] Johann Kaspar Juchen ... Erfurt, Sumphius, 1697. 4°: 25 $\ell$ . Dissertation delivered at the University of Erfurt, 10 November, 1697. RARE.

REFERENCES: LKG: XII 6\*.



RELATIO PRACTICA, 1741

**KIESSLING, Johann Gottfried.**

**2651. — German, 1741** [First edition].

Johann Gottfried Kießlings, | Jur. Pract. & dictæ artis Cult. | Relatio Practiaca | de | Arte

Probatoria | Mineralium & Metallorum. | Das ist: | Gründliche Erzählung, | Wie alle und jede | Mineralia | auf gewisse Metalle, | Diese hinwiederum in sich selbst, ingleichen | Müntzen, im Feuer, Durchs Aqua fort, Aqua | Regis, und Cementiren, probieret, und | geschieden werden; | Benebst der Nachricht, | Was allenthalben darzu nōthig, und ein Pro= | bierer oder Guardain, so wohl hiervon, als denen zum | Müntz= und Saiger-Hütten=Wesen, samt deren Verrich= | tungen wissen soll. | Worbey noch einiger anderer | zu dieser Kunst dienlichen Anweisungen | gedacht wird. | [rule] | Leipzig, verlegt Michael Blochberger. 1741.

8°: )(3 A-R<sup>8</sup> S<sup>4</sup>; 143 $\ell$ .; [6], [1]-279, [1] p. Engraved frontispiece of an assayer's laboratory. PAGE SIZE: 171 x 100 mm.

CONTENTS: Frontispiece.; [2 pgs], Title page, verso blank.; [4 pgs], “Geneigter Leser” [=preface].; [1]-279, Text.; [1 pg], Blank.

SCARCE. In this practical work on assaying, numerous tests on minerals are described. It provides a good idea of the processes and reagents of the mid-eighteenth century. In this first edition symbols and characters are used. A glossary of mining terms is in its own section, “Erklärung derer im vorstehenden tractat befindlichen berg- und hütten-terminorum”: p. 42-102.

**Related work, 1747:** *Gegründete Nachricht von dem Bergbau und Schmelzwesen in der Grafschaft Mannsfeld wie nämlich ersterer geführtet, letzterer aber tractiret wird, und zwar nach der hierbey befindlichen Eissleb- und Mannsfeldischen Berg-Ordnung benebst einer Erzählung von Muthmassungen auf Bergwerk, der Wünschel-Ruthe, Kuxhändlern auch des Berg- und Schmelzwesens in Thüringen, und welcher gestalt hier in vorigen Zeiten vieles durch den Bergbau erbeutet worden gefertigt von J.G. Kiesslingen ...* Leipzig, bey Friedrich Lankischens Erben, 1747. [12], 132 p. Title vignette; head and tail-pieces; initials.

Subjects: Mines and mineral resources—Germany—Saxony. Mines and mineral resources—Germany—Thuringia. Mines and mineral resources—Early works to 1800.

REFERENCES: BL: [T.954.(1.)]. • Cole, *Chemical Literature*, 1988: no. 713. • Ferguson, *Bibliotheca Chemica*, 1906: 1, 465. • *Freilich Sale Catalog*: no. 305 [reproduces the title page]. • Hoover Collection: no. 478. • NUC: 295, 595 [NK 0132575].

**2652. 2nd edition, 1752:** Johann Gottfried Kießlings, Jur. Pract. & dictæ artis Cult. Relatio Practiaca de Arte Probatoria Mineralium & Metallorum. Das ist: Gründliche Erzählung, Wie alle und jede Mineralia auf gewisse Metalle, diese hinwiederum in sich selbst, ingleichen Müntzen, im Feuer, Durchs Aqua fort, Aqua Regis, und Cementiren, probieret, und geschieden werden; Benebst der Nachricht, Was allenthalben darzu nōthig, und ein Probierer oder Guardain, so wohl hiervon, als denen zum Müntz= und Saiger-Hütten=Wesen, samt deren Verrichtungen wissen soll. Worbey noch einiger anderer zu dieser Kunst dienlichen Anweisungen gedacht wird. Andere Auflage. Leipzig, Verlegt Michael Blochberger, 1752.

8°: [14], 304 p., frontispiece.

VERY SCARCE. In this second edition, the symbols are replaced by full names. According to Ferguson, the frontispiece has also been altered in this second edition.

REFERENCES: Ferguson, *Bibliotheca Chemica*, 1906: 1, 466.

## KIRCHER

### 2653. — German, 1747.

Gegründete Nachricht von dem Bergbau und Schmelzwesen in der Grafschaft Mannsfeld wie nämlich ersterer geführtet, letzterer aber tractirt wird, und zwar nach der hierbey befindlichen Eissleb- und Mannsfeldischen Berg-Ordnung benebst einer Erzäh Leipzig, Bey Friedrich Lankischens Erben, 1747.

[12], 132 p. ; 23 cm. Title vignette; head and tail-pieces; initials. Title vignette; head and tail-pieces; initials. Wrappers. Wrappers. NUC pre-1956, v. 295, p. 595. NUC pre-1956, v. 295, p. 595. Bookplate of Dr. J.B. Holzinger VERY SCARCE.

### KIGGELAER, Franciscus.

#### 2654. — Dutch, 1723 [Sale catalog].

Catalogus van twee uitmuntende cabinetten, met ... hoorens, schelpen, en raare zee-gewasschen ... insecten ... eenige mineralen .. versamelt door wylen F. Kiggelaar. Dewelke ... werden verkogt, ... [s-Gravenhage, 1723.]

8°: 46 p. Sale catalog of a collection of natural history objects including minerals. RARE.

REFERENCES: BL: [730.c.26].

**KING, Edward.** (BORN: Norfolk, England, 1735?; DIED: London, England, 16 April 1807) *English Lawyer.*

King was an advocat in London. He was elected a Fellow of the Royal Society in 1767.

REFERENCES: Poggendorff: 1, col. 1256.

#### 2655. — English, 1796.

Remarks concerning stones said to have fallen from the clouds, both in these days and in antient times by Edward King. London, Printed for G. Nicol ..., 1796.

4°: A-D<sup>4</sup> E<sup>1</sup>; 17ℓ.; [1]-34 p., one plate. RARE.

CONTENTS: [1-2], Title page, verso blank.; 3-34, Text.; [At end], one plate.

REFERENCES: Brown, *Bibliography of Meteorites*, 1953. • LKG: XVI 343.

**KIRCHER, Athanasius.** (BORN: Geisa a. d. Ulster, Germany, 2 May 1601; DIED: Rome, Italy, 30 October 1680) *German polymath.*

Kircher was the youngest of six sons, whose father held a doctorate degree in theology. Kircher was provided an education in various Jesuit institutions, receiving a good classical education. In 1616 he elected to enter the Jesuit Order and in 1628 he was ordained a priest. Kircher was a polymath with interests in cartography, exploration, natural sciences, mathematics, natural philosophy, Greek, Latin, Hebrew, Syriac and oriental languages. In 1633, he answered a call to Rome by Pope Urban VIII and was appointed professor of mathematics, physics, and oriental languages at the Collegio Romano. He resigned in 1641 to pursue independent studies, however. Kircher was a voluminous author writing on a wide variety of subjects that interested him.

REFERENCES: ADB. • Brischar, K., "P. Athanasius Kircher, ein Lebensbild," *Katholische Studien*, 3 (1877), no. 5. • DBA: I 650, 307-328; II 705, 255-275. • DSB. • Eitner, *Quellenlexikon*, 1959. • Fletcher, J., "Astronomy in the Life



KIRCHER

and Correspondence of Athanasius Kircher," *Isis*, 61 (1970), 52-67. • Gerber, *Historisch-biographisches Lexikon*, 1812-4. • Hirsch, *Biographisches Lexikon*, 1884-8. • Jöcher, *Gelehrten-Lexikon*, 1750-51. • NDB: 11, 641b-5a [by F. Krafft]. • Poggendorff: 1, cols. 1258-9. • WBI.

#### 2656. — Latin, 1657.

Athanasii Kircheri | E Soc. Iesv | Iter Extaticvm II. | Qui & Mundi Subterranei | Prodrumvs dicitur. | Qvo | Geocosmi Opificiwm | Sive | Terrestris Globi Structura, vnà cum abditis | in ea constitutis arcanioris Naturæ Re- | conditorijs, per sicti rapus inte- | gumentum exponitur ad | veritatem, | In III. Dialogos distinctum. | Ad Serenissimvm | Leopoldvm Ignativm | Hungariæ, & Bohemiæ Regem. | Romæ, Typis Mascardi. M.DC.LVII. | [rule] | Svpriorvm Permissv.

✠✠✠✠ A-Gg<sup>4</sup> Hh<sup>5</sup>; 137ℓ.; [24], 1-237, [13] p. RARE.

CONTENTS: [2 pgs], Title page, verso blank.; [6 pgs], Dedication, dated 1 November 1657.; [9 pgs], "Præfatio | Ad Lectorem."; [5 pgs], "Pars Secvnda."; [1 pg], "Ioannes Rho | Provinciæ Romanæ Societa- | tis IESV Præpositus | Prouincialis."—dated 2 August 1657.; [1 pg], "Imprimatur." 1-227, Text.; 228-229, "Synopsis."; 230-237, "Mundus Svbtterranevs" [=prodrum for the work].; [12 pgs], "Index."; [1 pg], "Errores sic emenda."

REFERENCES: Brunet: 3, 667. • De Backer, *Bibliothèque des Ecrivains*, 1853-61: 1, 426.12. • Graesse, *Trésor de Livres Rares*, 1859-69: 4, 21. • Merrill, *Athanasius Kircher*, 1989: no. 13. • Sommervogel, *Bibliothèque Compagnie de Jesus*, 1890: 4, 1057.15.

#### 2657. — Latin, 1660.

R.P. | Athanasii Kircheri | Iter Extaticum | Coeleste, | Quo Mundi opisicium, id est, Cœlestis Expansi, siderumq; | tam errantium, quàm fixorum natura, vires, proprietates, singulo- | rumq; compositio & structura, ab insimo Telluris globo, usq; ad ultima | Mundi consinia, per sicti raptus integumentum explorata, | novâ hypothesi

exponitur ad veritatem, | Interlocutoribus |  
Cosmiele Et Theodidacto: | Hac secundâ editione  
Præclusionibus & Scholiis illustra- | tum; ac  
schematismis necessariis, qui deerant, exornatum;  
nec | non à mendis, quæ in primam Romanam  
editionem irre- | pserant, expurgatum, | Ipso  
Auctore Annuente, | A | P. Gaspare Schotto  
| Regiscuriano E Societate Jesu, | Olim in  
Panormitano Siciliæ, nunc in Herbipolitano |  
Franconiæ Gymnasio ejusdem Societatis Jesu |  
Matheseos Professore. | Accessit ejusdem Auctoris  
| Iter Exstatisum Terrestris, | & | Synopsis Mundi  
Subterranei. | Herbipoli | Sumptibus Joh. Andr.  
& Wolffg. Jun. Endterorum hæredibus, | Prostat  
Norimbergæ apud eosdem. | Anno M. DC. LX.

4°:  $\pi^1$  )(-)()()4 A-Ssss<sup>4</sup> Uuuu<sup>2</sup>; 366ℓ.; [24], 1-689, [19] p. Added engraved vignette title (included in pagination), engraved arms of Joachim von Gravenegg, Abbot of Fulda, on verso of letterpress title, and twelve engraved plates.

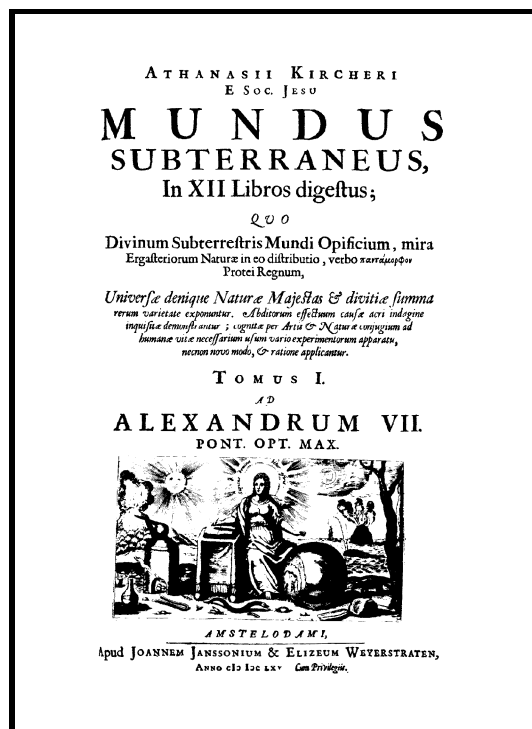
CONTENTS: [2 pgs/= $\pi$ 1rv], Engraved title page, verso blank.; [1 pg/=(1r)], Title page.; [1 pg/=(1v)], Engraved coat of arms.; [5 pgs/=(2r-)(1r)], Dedication to D. Io Achimo.; [1 pg/=(1v)], Commendations with text starting "Facvlatas..."; [1 pg/=(2r)], "Bibliopolæ | Monitio ad Lectorem."; [4 pgs/=(2v-)(4r)], "Elenchus Titulorum | Totius Operis." [=table of contents]; [1 pg/=(4v)], Blank.; 1-10 (=A-B1v), "Præfatio Scho- | liastæ | Ad Benevolum Lectorem."; 11-18 (=B2r-C1v), "Præfatio Auctoris."; 19-689, Text.; [16 pgs/=Ssss1v-Uuuu1r], "Index | Rerum Præcipuarum."; [2 pgs/=Uuuu1v-Uuuu2r], Errata and "Lectori Meo."; [1 pg/=Uuuu2v], Blank.

RARE. First published in 1656, *Itinerarium Exstaticum* is one of Kircher's most curious works. It is written in the form of a narrative, consisting of two dialogues, in which a certain Theodidactus is caught up in a dream journey and is guided through the heavens by a spirit named Cosmiel. In the first dialogue, Kircher recounts the journey to the moon, which he finds scarred with mountains and craters, contrary to the Aristotelian view. He flies on to Venus, which he discovers is made of the four elements, and son on to each of the other planets and through the region of the fixed stars. In the second dialogue, he deals with the creation of the earth, its position in the universe, its various characteristics and limitations, and finally, its eventual destruction. The second edition of 1660 was prepared by Kircher's friend and disciple Gaspar Schott [1608-1666].

REFERENCES: Brunet: III, col. 667. • Caillet, *Manuel*, 1912: 2, 361.5775. • De Backer, *Bibliothèque des Ecrivains*, 1853-61: 1, 426.11. • Graesse, *Trésor de Livres Rares*, 1859-69: 4, 21. • Honeyman Sale: 1819. • LKG: XIII 2. • Merrill, *Athanasius Kircher*, 1989: no. 14. • NUC: [no copy listed]. • Sommervogel, *Bibliothèque Compagnie de Jesus*, 1890: 4, 1056-57.14.

**2658. — Latin, 1664-5** [First edition].

Athanasii Kircheri | E Soc. Jesu | Mundus  
| Subterraneus, | In XII Libros digestus; |



MUNDUS SUBTERRANEUS, 1665

Qvo | Divinum Subterrestris Mundi Opificium,  
mira | Ergasteriorum Naturæ in eo distributio,  
verbo [Greek pantamorphon] | Protei Regnum,  
| Universæ denique Naturæ Majestas & divitiæ  
summa | rerum varietate exponuntur. Abditorum  
effectuum causæ acri indagine | inquisitæ  
demonstrantur; cognitæ per Artis & Naturæ  
conjugium ad | humanæ vitæ necessarium usum  
vario experimentorum apparatu, | necnon novo  
modo, & ratione applicantur. | Tomus I. [-II.] | Ad  
| Alexandrum VII. | Pont. Opt. Max. | [vignette]  
Amstelodami, | [rule] | Apud Joannem Janssonium  
& Elizeum Weyerstraten, | Anno c16 lxx Cum Privilegiis.

[ADDED ENGRAVED TITLE PAGE OF VOLUME 1:]

Athanasii Kircheri | E Soc. Jesu | Mundus |  
Subterraneus | Amsterodami | Apud Joannem  
Janssonium et Elizeum Weyerstraten. | Romæ.  
1664.

[ENGRAVED TITLE PAGE OF VOLUME 2:]

[In the upper compartment:] Athanasii Kircheri | e  
Soc. Iesu | Mundi Subterranei | Tomus II.<sup>us</sup> |  
In v. libros digestus quibus | Mundi Subterranei  
fructus exponuntur, et | quidquid tandem rarum,  
insolitum, et portentosum | in foecundo Naturæ  
utero continetur, ante oculos | ponitur curiosi



## KIRCHER

Lectoris. | [In a lower compartment:] Orpheus, followed by 4 lines of text in Greek.

2 vols. (usually bound in one). [VOL 1] 2°: \*5 \*\*6 \*\*\*4 A-Xx4; 191ℓ.; [30], 1-346, [6] p., portraits, plates (some folding). Title vignette. [VOL 2] 2°: (\*)<sup>6</sup> A-Xx4 Yy-Zz4 Aaa-Qqq4; 254ℓ.; [12], 487, [9] p., illus., plates (part fold.) maps (part fold.) tables (part fold.) diagrs. Added engraved title page. Title vignette. In double columns; ornamental initials and head- and tailpieces. PAGE SIZE: 400 x 136 mm.

CONTENTS: [Vol 1] [2 pgs/=\*1rv], Engraved title page, verso blank.; [2 pgs/=\*2rv], Title page, verso "Joannes Paulus Oliva ..."; [Portrait]; [4 pgs/=\*3r-\*4v], Dedication to Pope Alexander VII.; [2 pgs/=\*5rv], "Privilegium."; [Portrait of Kircher]; [12 pgs/=\*\*1r-\*6v], "Præfatio."; [4 pgs/=\*\*\*1r-\*2v], "Præfatio | Secunda."; [4 pgs/=\*\*\*3r-\*4v], "Index | Argumentorum."; 1-345, Text.; 346, "Catalogus | Liborum."; [6 pgs/=Xx2r-Xx4v], "Index."

[Vol 2] [2 pgs/>(\*1rv), Engraved title page, verso blank.; [4 pgs/>(\*2r-\*)3v], Dedication to Leopold I.; [2 pgs/>(\*4r-\*)4v], "Proæmium | Ad | Lectorem."; [4 pgs/>(\*5r-\*)6v], "Index | Argumentorum."; 1-487, Text.; [9 pgs/=Rrr4v-Qqq4v], "Index."

VERY SCARCE. First edition, first issue (engraved titles are dated 1664), of this famous and appealing book; it "must always command a high place in the literature as the first effort to describe the earth from a physical standpoint." (Zittel, p. 25). This work is concerned with geology, mineralogy, mining, astronomy, chemistry, and physics. The first two books contain a consideration of the center of gravity of the earth and the form and constitution of the sun, moon, and earth. Book III is devoted to hydrography and Book IV to the earth's interior, volcanoes, and winds. Books VI-VIII treat the earth's composition. Book X is devoted to minerals and mining. It is in this book that Kircher expressed for the first time the theory that the temperature below the earth's surface increases in proportion to depth. There are also sections on distillation (with some fine illustrations of distillation equipment) and glass-making.

*Mundus Subterraneus* is Kircher's textbook of the physical sciences and is replete with illustrations. It was Kircher's most broadly known work during his lifetime, and is the best known in ours. Many chapters deal with geology, mineralogy, mining and metallurgy. But the work is not solely geologic. Kircher reports many fantastic speculations about the interior of the earth, its hidden lakes, its rivers of fire, and its strange inhabitants. Major topics include gravity, the moon, the sun, eclipses, ocean currents, subterranean waters and fires, meteorology, rivers and lakes, hydraulics, minerals and fossils, subterranean giants, beasts and demons, poisons, metallurgy and mining, alchemy, the universal seed and the generation of insects, herbs, astrological medicine, distillation, and fireworks. In this work he discloses his experience with palingenesis: he had allegedly resuscitated a plant from its ashes. Much of the work deals with alchemy. Kircher ridiculed Paracelsus' belief in transmutation and discredits the work of alchemists in general, complaining about the

obscurity of their writings. This diatribe brought him vicious criticism and abuse later in life from alchemists who no longer feared the authority of the Jesuit order. In this book Kircher expressed for the first time the theory that temperature below the earth's surface increases in proportion to depth. Kircher's *Mundus subterraneus* contains the first appearance in book form of Eustachio Divini's (1610-1685) "Lunae Facies", a moon map first published in 1649 in broadsheet as an advertisement for the quality of his lenses.

REFERENCES: Brunet: 3, 667-8. • Caillet, Manuel, 1912: no. 5738. • De Backer, *Bibliothèque des Ecrivains*, 1853-61: 1, 427-28.17. • Ferguson, *Bibliographia Paracelsica*, Glasgow, 1877: 1, 467. • *Freilich Sale Catalog*: no. 307. • Graesse, *Trésor de Livres Rares*, 1859-69: 4, 21. • Hoover Collection: no. 483. • Merrill, *Athanasius Kircher*, 1989: no. 17. • Nissen (ZBI): no. 2196. • Norman Catalog: 1, ??, no. 1218. • Sabin, *Dictionary*, 1868-1936: no. 37697. • Sinkankas, *Gemology Bibliography*, 1993: no. 3419. • Sommervogel, *Bibliothèque Compagnie de Jesus*, 1890: 4, 1060-63.21. • Ward & Carozzi, *Geology Emerging*, 1984: no. 1257. • Wellcome Catalog (Books): 3, 395.

**2659. 2nd edition, 1668:** Athanasii Kircheri *Mundus subterraneus*, in XII libros digestus; quo divinum subterrestris mundi opificium, mira ergasteriorum naturae in eo distributio, verbo [Greek *pantamorphon*] Protei regnum, vniuersae denique naturae majestas & divitiae summa rerum varietate exponuntur. Abditorum effectuum causae acri indagine inquisitae demonstrantur; cognitae per artis & naturae conjugium ad humanae vitae necessarium usum vario experimentorum apparatu, necnon novo modo, & ratione applicantur. Amstelodami, Apud Joannem Janssonium a Waesberge & viduam Elizaei Weyerstraet, 1668.

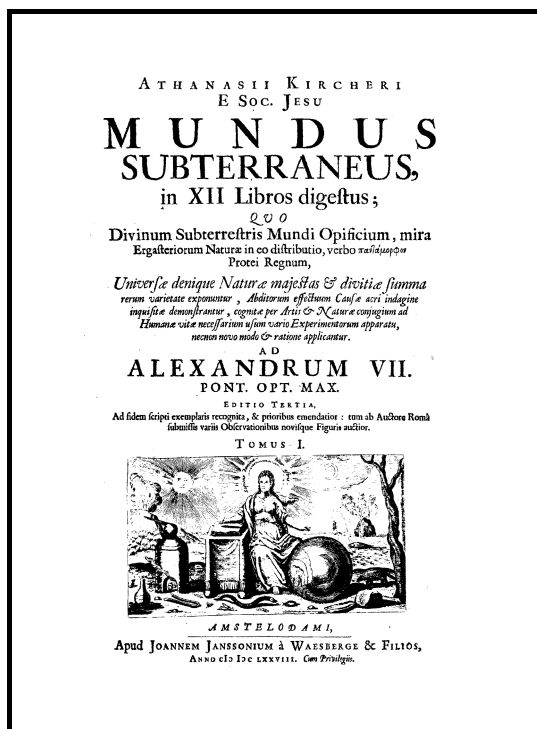
2 vols. in one. 2°: [28], 346, [6] p.; [x], 487, [9] p., 2 added engraved title pages, 1 engraved title page vignette, decorated initials, tailpieces, 11 engraved maps (8 folding, including 1 map of the moon), 12 engraved plates (4 folding), 66 engraved maps and figs. in the text, over 220 woodcut figs., tables (7 folding), indexes; engraved ports. of Pope Alexander VII (the dedicatee) and Kircher Added engr. t.p. and engr. t.p. of v. 2 dated 1665. Reprint of the 1665 ed. Includes indexes. PAGE SIZE: 400 x 246 mm.

VERY SCARCE. The engraved title pages are dated 1665, the printed title-page to Vol. I dated 1668.

**2660. 3rd edition, 1678:** Athanasii Kircheri | E Soc. Jesu | *Mundus | Subterraneus, | in XII Libros digestus; | Quo | Divinum Subterrestris Mundi Opificium, mira | Ergasteriorum Naturae in eo distributio, verbo [Greek *pantamorphon*] | Protei Regnum, | Universae denique Naturae majestas & divitiae summa | rerum varietate exponuntur, Abditorum effectuum Causae acri indagine | inquisitae demonstrantur, conitae per Artis & Naturae conjugium ad | Humanæ vitæ necessarium usum vario Experimentorum apparatu, | necnon novo modo, & ratione applicantur. | Ad | Alexandrum VII. | Pont. Opt. Max. | Editio Tertia, | Ad sidem scripti exemplaris recognita, & prioribus emendatio: tum ab Auctore Româ | submissis variis Observationibus novisque Figuris auctor. | Tomus I. [-II.] | [vignette] | Amstelodami, | [rule] | Apud Joannem Janssonium a Waesbrege & Filios, | Anno cDc Icc LXXVIII. Cum Privilegiis.*

2 parts in one volume. [Part 1] 2°: \*4 \*\*6 A-Zz4 Aaa2 (\$2 or \$3 signed; includes engraved title page); 196ℓ.; [20], 1-366, [6] p. [Part 2] 2°: π<sup>1</sup> \*4 A-Rrr4 Sss6 (includes engraved title page); 263ℓ.; [10], 1-507, [9] p. Added engraved title pages in both parts. VERY SCARCE.

CONTENTS: [Part 1] [2 pgs/=\*1rv], Engraved title page, verso blank.; [2 pgs/=\*2rv], Title page, verso "Joannes Paulus Oliva | ..."; [4 pgs/=\*3r-\*4v], Dedication to Pope Alexander VII.; [9 pgs/=\*\*1r-\*5r], "Præfatio."; [3 pgs/=\*\*5v-\*6v], "Index Argumentorum" [=table of



MUNDUS SUBTERRANEUS, 1678

contents]; 1-366 (=A-Zz3v), Text.; [6 pgs/=Zz4r-Aaa2v], "Index | Rerum & Verborum | Locupletissimus."

[Part 2] [2 pgs/=π1rv], Engraved title page, verso blank.; [2 pgs/=\*1rv], "Dedicatio."—dated June 1663.; [2 pgs/=\*2r-\*2v], "Præmium | Ad | Lectorem. | Idea Operis."; [4 pgs/=\*3r-\*4v], "Index Argumentorum."; 1-507 (=A-Sss2r), Text.; [Starting p. 507 and next 9 pgs/=Sss2r-Sss6v], "Index | Rerum & Verborum | Tomi Secundi."

Facsimile reprint, 2004: *Mundus subterraneus in XII libros digestus*. Editio tertia. Firenze, Forni Reprint, 2004. 942 p., 25 plates.

REFERENCES: Duveen, *Bibliotheca Alchemica et Chemica*, 1965: p. 322 [incorrectly calling for 23 plates]. • Freilich Sale Catalog: no. 308. • LKG: XIII 3a. • Partington, *History of Chemistry*, 1961-70: 2, 328-33. • Sinkankas, *Gemology Bibliography*, 1993: no. 3421.

**2661. Dutch transl., 1682:** d'Onder-aardse weereld in haar Goddelijk maaksel en wonderbare uitwerkselen aller dingen; vervat in II deelen. Waar van dit eerste handeld van het wiskundig werkstuk des aardkloots in 't heelal. De konstige samenstel en schikking der bergen; de krachtige beweging der zeen en rivieren; den oorsprong der onderaardse vuuren, winden en fonteinen; beneffens der selve woedend vermogen in de tempeesten en aardbevingen; de vremde werkingen der wateren, baden en meiren; als mede hoe en op wat wyse de souden, de metallén, de swavels en andere vruchten binnen d'ingewanden der aarde, als door een konstigen werkmeester natuurlijk werden voortgebracht. Het tweede deel; daar in de wonderbare kracht der werksame natuur in de voortbrenging der menigerlei schepselen, en der selver gedurige op en ondergang, in V. boeken naauwkeurig beschreven wordt. Handelende van de seldsaame aart der velerlei steenen, dieren, menschen en duivelen; de kracht en werking der wateren en fonteinen; de groeijing der mijnstoffen en metallén; de waare en valsche goudsoekerye; de kracht der

zaden en zadelijkheid; 't voorkomen der ondieren, planten en gewassen; de nuttigheid der distilleerkunde en veel vermogende stofscheidinge, glasblasen en allerhande konst en handgrepen die tot vermaak an algemeene dienst der menschen door arbeidsame geesten omtrent alle geseide dingen kunnen in 't werk gestelt worden. Uit het Latijn vertaalt. Amsterdam, Heirs of Joannes Janssonius van Waasberge, 1682.

2 vols in one. [VOL 1] 2°: \*4 ††6 A-Hhh6; 228ℓ.; [20], 1-425, [11] p. Added engraved illustrated title-page. [VOL 2] 2°: \*4 A-Fff4 Ggg6; 215ℓ.; [8], 1-415, [13] p., illus. (including diagrams) 18 plates (16 double) including maps, charts, tables. Title of volume two varies slightly. Vol. 2, pages 132 & 136 numbered as 232 & 236. With richly engraved allegorical frontispiece including various instruments of drawing, surveying and measuring, large allegorical engraving on the first title including all kinds of subterranean natural phenomena and creatures, large armorial engraving to the dedication, several tables in text, over 200 woodcuts in text of geometrical and perspectival, geological and geographical figures and illustrations in text, including full-page woodcut plates of distilling apparatus and of man as microcosmos set within macrocosmos, 74 engraved maps and illustrations in text, several full-page, and 13 full-page or folding engraved maps and plates, including maps of the moon, sun, the subterranean waters, views of the volcanos Vesuvius and Etna, and view of the machinery in a saltmine-shaft, signed by Bonzon. PAGE SIZE: 446 x 272 mm.

CONTENTS: [Vol 1] [2 pgs/=\*1rv], Engraved title page, verso blank.; [2 pgs/=\*2rv], Printed title page, verso blank.; [1 pg/=\*3r], Dedication to Thomas Ernsthuys.; [3 pgs/=\*3v-\*4v], "Directeur Generaal" (=Opdragt); [7 pgs/=††1r-††4r], "Voor-Reden."; [5 pgs/=††4v-††6v], "Kort Inhoud | Van De | Boeken en Hooftstukken." (=table of contents); 1-425 (=A-Hhh1r), Text.; [11 pgs/=Hhh1v-Hhh6v], Index.

[Vol 2] [2 pgs/=\*1rv], Title page, verso blank.; [2 pgs/=\*2rv], "Voor-Reden | Tot Den | Leezer."; [4 pgs/=\*3r-\*4v], Table of contents.; 1-415 (=A-Fff4r), Text.; [13 pgs/=Fff4v-Ggg6v], Index.

RARE. Dutch edition of *Mundus Subterraneus*.

REFERENCES: Caillet, *Manuel*, 1912: no. 5783. • LKG: XIII 3a. • Sabin, *Dictionary*, 1868-1936: no. 37967. • Sommervogel, *Bibliothèque Compagnie de Jesus*, 1890: 4, 1061-2.

**2662. English transl., 1669:** The | Volcano's: | Or, | Burning and Fire-vomiting Mountains, | Famous in the World: | VVith their Remarkables. | Collected for the most part out of Kircher's | Subterraneous World; | And expos'd to more general view in English, upon the Relation | of the late Wonderful and Prodigious Eruptions of Ætna. | Thereby to occasion greater admirations of the Wonders of Na- | ture (and of the God of Nature) in the mighty Element of Fire. | Res semper aliquid apportat novi. | None sadlier knows the unresisted Ire, | Then Thou, Poor London! of th' all-raging Fire. | But these occasion'd kindlings are but Blazes, | To th' mighty Burnings, which fierce Nature raises. | If then a Town; or Hills blaze be so dire; | What will be th' last, and Universal Fire? | Licensed and Entered according to Order. | London, Printed by J. Darby, for John Allen; and are to be sold by him, | at the White Horse in Wentworth near Bell Lane; And by Benjamin | Billingsly at the Printing-Press in Broad-Street near Gresham-Colledg, 1669.

4°: A-I4 K2; 38ℓ.; [8], 1-68 p., one plate.

CONTENTS: [2 pgs/=A1], Title page, verso blank.; [2 pgs/=A2], "The Epistle to the Reader."; [3 pgs/=A3r-A4r], "The Explication of the Schemes, out of Kircher."; [1 pg/=A4v], "The Table." (=table of contents); 1-64, Text.; 65-68, "A fuller Relation of the Spanish Priests Error and | attempt, about getting Gold out of one of these flam- | ing Mountains in the West-Indies."

## KIRCHHOFF

VERY SCARCE. A translation into English of those portions of the *Mundus Subterraneus* dealing exclusively with volcanoes.

REFERENCES: Hoover Collection: no. 484. • LKG: XIII 263. • Merrill, *Athanasius Kircher*, 1989: no. 18. • Wing: K-624 Variant.

### 2663. — Latin, 1667.

Athanasii Kircheri | E Soc. Jesu | China | Monumentis | Qva | Sacris quā Profanis, | Nec non variis | Naturæ & Artis | Spectaculis, | Aliarumque rerum memorabilium | Argumentis | Illustrata, | Auspiciis | Leopldi Primi | Munificentissimi Mecænatis. | [ornament] | Amstelodami, | [rule] | Apud Joannem Janssonium à Waesberge & Elizeum Weyerstraet, | Anno clō IōC LXVII. Cum Privilegiis.

4°: \*-\*\*4 A-Hh4; 132ℓ.; [16], 1-237, [11] p., 23 plates, 2 folding maps, illus. PAGE SIZE: 326 x 218 mm.

CONTENTS: [2 pgs/=1rv], Engraved title page, verso blank.; [1 pg/=2r], Title page.; [1 pg/=2v], "Joannes Paulus Olivia | ..."; [5 pgs/=3r-\*\*1r], Dedication to Joanni Paulo Olivia, dated 8 December 1666.; [3 pgs/=\*\*1v-\*\*2v], "Procemium | Ad | Lectorem."; [3 pgs/=\*\*3r-\*\*4r], "Index | Capitum."; [1 pg/=\*\*4v], "Index | Figuarum." [=list of plates]; [Portrait of Kircher in an oval frame]; 1-237 (=A-Gg3r), Text.; [8 pgs/=Gg3v-Hh3r], "Index | Rerum & Locorum | Memorabilium."; [1 pg/=Hh3v], "Typographi | Lectori | Salutem."; [2 pg/=Hh4r-Hh4v], "Elenchus | Liborum | A | P. Athanasio Kircherō." [=list of Kircher's books].

RARE. "China, like Egypt, was to Kircher an ancient and mysterious land, highly civilized, filled with strange creatures and unimaginable marvels, and, above all, having an origin and universality common with all nations...China had been open to Christian missionaries for only a few decades when Kircher, at 28, applied to go there. He was refused, but the refusal only whetted his curiosity. Over the next 37 years he maintained a voluminous correspondence with fellow Jesuits in China, gleaned all the information he could from their letters and journals." Included in the observations and materials Kircher received about China were mineralogical specimens.

REFERENCES: Brunet: 3, 666-7. • Caillet, *Manuel*, 1912: 2, 361.5773. • De Backer, *Bibliothèque des Ecrivains*, 1853-61: 1, 428-29.21. • Graesse, *Trésor de Livres Rares*, 1859-69: 4, 21. • LKG: XIV 863 & 864. • Merrill, *Athanasius Kircher*, 1989: no. 20. • Sommervogel, *Bibliothèque Compagnie de Jesus*, 1890: 4, 1063-65.24.

**2664. French transl., 1670:** La Chine d'Athanas Kircher ... illustrée de plusieurs monuments tant sacrés que profanes, et de quantité de recherches de la nature et de l'art. A quoy on à adjousté de nouveau les questions curieuses que le serenissime grandduc de Toscane a fait depuis peu au P. Jean Grubere touchant ce grand empire. Avec un dictionnaire chinois qui n'apas encores paru au jour. Traduit par F.S. Dalquié. Amsterdam: Chez J. Jansson à Waesberge & les heritiers d'Elizée Weyerstraet, 1670.

4°: [16], 367, [11], [2] p., illustrated, 23 plates, frontispiece portrait, 2 folding maps.

VERY SCARCE. First French edition, translated by F.S. Dalquié. Description and travel in China.

REFERENCES: LKG: XIV 863 & 864.

Musaeum Kircherianum, sive Musaeum a p. Athanasio Kircherō in Collegio romano Societatis Jesu jam pridem incoeptum nuper restitutum, auctum, descriptum, & iconibus illustratum, excellentissimo domino Francisco Mariae Ruspolo ... oblatum a p. Philippo Bonanni ... (Romae, 1709).

See: **Buonanni (bonanni), Filippo.**

### KIRCHHOFF, Anton. (BORN: 1606; DIED: 1648) *German theologian.*

Rector in Leipzig, Kirchhoff was appointed in 1673 to the position of professor for ethics and theology.

REFERENCES: Poggendorff: 1, cols. 1259-60.

### 2665. — Latin, 1634 [Dissertation].

In Dei Gloriam, | Autoritate | Facultatio Philosophicæ | De | Gemmis | Philologica | Prologo, P.P. | Lipsiae, | M. Antonius Kirchhoff [!]. | M. Mart. VIII. | [rule] | Ex primebat Joannes Albertus Minzelius. | Anno M DC XXXIV.

4° A-C4; 12ℓ.; [24] p.

CONTENTS: [1], Title page.; [2], Letter to Beroaldus to Ulderich Rosens.; [3], Dedication.; [4-24], Text.

VERY RARE. A disseration reviewing the properties of various gemstones including diamond, sapphire, and ruby. It was reissued(?) in 1636.

REFERENCES: BL: [B.248.(3.)]. • Dryander, *Catalogus Banks*, 1796-1800: 4, ?? . • LKG: XVI 202. • NUC: [no copy listed]. • Sinkankas, *Gemology Bibliography*, 1993: no. 3424.

### KIRCHMAIER, Georg Casper. (BORN: Uffenheim, Franken, Germany, 29 July 1635; DIED: Wittenberg, Germany, 28 September 1700) *German montanist & naturalist.*

Kirchmaier was a professor of eloquence at the University of Wittenberg and a member of the Leopoldinische Akademie.

REFERENCES: ADB. • DBA: I 651, 130-159; II 706, 125-126. • Gerber, *Historisch-biographisches Lexikon*, 1812-4. • Hirsch, *Biographisches Lexikon*, 1884-8. • Jöcher, *Gelehrten-Lexikon*, 1750-51. • Poggendorff: 1, col. 1261. • WBI.

**2666. Dissertation, 1660:** Q.D.B.V. | De | Gemmis, | in | Florentissima Wittenberga | Publice disputabunt: | Praeses, | M. Georgius Caspar | Kirchmaier, | & | Respondens, | Christophorus Mullerus, | Graffenhanichen Misnicus. | Ad d. 26. Martii, Hor. Pomerid. Anno 1660. | Loco Solito. | [rule] | Wittebergae, | Typis Matthaei Henckeli.

4°: A-B4; 8ℓ.; [16] p.

CONTENTS: [1], Title page. [2-16], Text.

VERY SCARCE. Dissertation to which Christoph Müller was respondent. Here are discussed gems, their properties, and information on false gems.

REFERENCES: BL: [444.a.36.]. • Gatterer, *Mineralogischen Literatur*, 1798-9: 2, p. 16. • LKG: XVI 208. • NUC: [no copy listed]. • Sinkankas, *Gemology Bibliography*, 1993: no. 3425. • VD17: 14:643492S.

**2667. Dissertation, 1661:** De Montibus Ignivomis. Praeside M. Georg. Casp. Kirchmaiero, Facult. Philosoph. Adjunct. Witteb. ad d. 16. Mart. A.O.R. M.DCLXI. publice disputabit Johann-Christoph. Eilert, Coloniensis-Marchita. Hor. Locoq[ue] solitis ... [Wittenberg], Borckardus, 1661.

4°: π1 A-B4 C2; 11ℓ. Disseration to which Johann Christoph Eilert was respondent. RARE.

REFERENCES: VD17: 1:044649Q.

**2668. Dissertation, 1689:** Metallurgia Vapulans à Seneca Philos. & Plinio Seniori, Adademiâ Dissertatione vindicata | A | Præsides | Georg. Caspare | Kirchmajero, | Prof. Publ. | Ac | Respondente | Paulo Hoffmanno, Dresdensi, | Wittebergæ ventilabitur | Ad d. XXXI. Julii, A. 1689. | In Auditorio Majori. | [rule] | Wittenbergæ, | Typis Christiani Schrödteri, Acad. Typ.

4°: A-C<sup>4</sup> D<sup>2</sup>; 14ℓ.; [2], 1-22, [4] p. PAGE SIZE: 196 x 163 mm.

CONTENTS: [2 pgs], Title page, verso blank.; 1-22, Text, starting "Ad Flores Senecae Philosophi collectos, & sequenti comprehensos Capite, De Irritamentis Avaritiae ac Luxuriae, Metallis."; [4 pgs], Laudatory poems.

VERY RARE. Dissertation – Paulus Hofmann, of Dresden, respondent. Bibliographically not located. The text describes the values and dangers of mining and metallurgy and the use and abuse of precious stones.

REFERENCES: BL: [1033.h.20.(8.)].

**2669. Dissertation, 1692:** Ferax metallorum atque mineralium Dübensis Saltus, prope Schimdebergam, in Saxoniae electorali circulo. Responsuroque Johanne Schockwitz. Wittebergæ, Typis C. Schrödteri, [1692].

4°: 16 p.

VERY SCARCE. Dissertation – Johanne Schockwitz, respondent.

REFERENCES: BL: [444.c.15.(3.)]. • LKG: XIV 297.

**2670. Dissertation, 1695:** Dissertatio Ad Plin. Secund. Hist. Nat. II. 105 & 107 de ignium miraculis locisque semper ardentibus, singulatim de Carbone fossili ... disseret ... C. S. Præs. G. O. Kirchmajero. Witteburgæ, 1695.

4°:

VERY SCARCE. Dissertation – C. Scheibner, respondent.

REFERENCES: BL: [536.f.14.(15.)]. • LKG: XVI 413. • NUC: [no copy listed].

#### 2671. — Latin, 1693.

Metallo-metamorphosis, principiis ac experimentis curiosis metallurgicis asserta. Wittenbergæ, Typis Christiani Schrödteri [1693]

[1], 24 p. ; 19 cm. Imperfect: p. 1-2 mutilated. Imperfect: p. 1-2 mutilated. Thesis - Wittenberg (L. K. Mayer, respondent) Thesis - Wittenberg (L. K. Mayer, respondent) VERY SCARCE.

#### 2672. — German, 1698.

Hoffnung besserer Zeiten durch das edle Bergwerk : von Grund und aus der Erden zuerwarten ; nebenst Vorbericht vom Bergwerck selbst, dessen Rechten und Freyheiten, besserer Schmelzt- Scheide- und Sengerkunst ; mit eunchen Zugaben vorgestellt durch G Wittenberg : bey Heinrich Joh. Meyers Erben und Gottfr. Zimmermann, 1698.

[8], 112 p., 3 leaves of plates : ill. (folded) ; 21 cm. Inscription on title page: H C Hoover 16. Inscription on title page: H C Hoover 16. VERY SCARCE.

**KIRWAN, Richard.** (BORN: Cloughballymore, County Galway, Ireland, 1733; DIED: Dublin, Ireland, 1 June 1812) *Irish chemist, mineralogist, geologist & meteorologist.*

In 1750, Kirwan enrolled with the Jesuits at the University of Poitiers (France), but in 1755, upon death of his brother, he returned to Ireland to inherit the family estates. Kirwan frequently traveled to London, remaining there ten years beginning in 1777. In London, his house became a well known meeting place for those distinguished



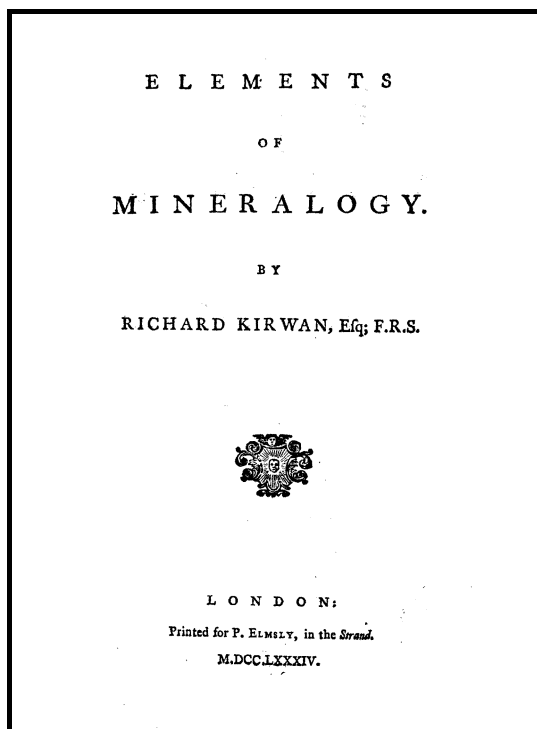
KIRWAN

by birth, position, or achievement in science. In 1787, he returned to Ireland. Among the many societies Kirwan was elected to were the Royal Irish Academy, of which he was an original member and subsequently its president. In 1780, he was also elected a Fellow of the Royal Society of London, which awarded him the Copley Medal in 1782. The mineral "Kirwanite" was named for him by T. THOMSON in 1831.

REFERENCES: Barr, *Index to Biographical Fragments*, 1973: 141. • BBA: I 651, 296-314. • Brockman, C.J., "Richard Kirwan, chemist 1733-1812," *Journal of Chemical Education*, 4 (1927), 1275-82. • *Dictionary of Irish Biography*: 210. • Dixon, F.E., "Richard Kirwan the Dublin philosopher," *Dublin Historical Record*, 24 (1971), 53-64. • DNB: 11, 228-30 [by A.M. Clerke]. • Donovan, M., "Richard Kirwan," *Proceedings of the Royal Irish Academy*, 4 (1850), lxxxi-cxviii. • DSB: 7, 387-90 [by E.L. Scott]. • *Encyclopaedia Britannica*, 11th edition. • Ferguson, *Bibliotheca Chemica*, 1906: 1, 472. • Grison, E., M. Goupil, and P. Bret, eds., *A scientific correspondence during the chemical revolution : Louis-Bernard Guyton de Morveau and Richard Kirwan, 1782-1802*. Edited by Emmanuel Grison, Michelle Goupil, and Patrice Bret. Berkeley, Office for History of Science and Technology, University of California at Berkeley, 1994. vi, 257 p., illus. • Heggarty, D.E., *Richard Kirwan: the natural philosopher and the chemical revolution*. Ph.D. Dissertation. Spokane, University of Washington, 1971. [See: *Dissertation Abstracts International*, 39, 3785-A.]. • Ireland, *Index to Scientists*, 1962: 348. • *ISIS*, 1913-65: 2, 22. • Lambrecht & Quenstedt, *Catalogus*, 1938: 235. • McLaughlin, P.J., "Richard Kirwan: 1733-1812," *Studies: Irish O. Review*, 28 (1939), 461-74, 593-605 & 29 (1940), 71-83, 281-300. • O'Flanagan, J.R., "Richard Kirwan," *Dublin Saturday Magazine*, 2 (1865), 242-4, 254-6 & 266-9. • O'Reardon, J., "The life and works of Richard Kirwan," *National Magazine, Dublin*, 1 (1830), 330-42 & 469-75. • *Philosophical Magazine*, 3rd Series: 14 (1802), 353, portrait. • Poggendorff: 1, col. 1263. • Reilly, J. and N. O'Flynn, "Richard Kirwan, an Irish chemist of the eighteenth century," *Isis*, 13, 298-319. • Sarjeant, *Geologists*, 1980: 2, 1456 & Suppl. 2 (1995), 1, 794. • Scott, E.L., *Life and work of Richard Kirwan (1733-1812), with particular reference to his influence on the chemistry, geology, and meteorology of his time*. Ph.D. Dissertation. London, London University, 1979. • WBI. • Webb, *Compendium of Irish Biography*, 1878: 277. • Weeks, *Discovery of the Elements*, 1934: 132-3, portrait. • *World Who's Who in Science*: 939.

#### 2673. — English, 1784 [First edition].

Elements | of | Mineralogy. | By | Richard Kirwan,



ELEMENTS OF MINERALOGY, 1784

Esq. F.R.S. | [ornament] | London: | Printed for  
P. Elmsly, in the Strand. | M. DCC. LXXXIV.

8°: [A]<sup>8</sup> a<sup>2</sup> B-Z<sup>8</sup> Aa-Cc<sup>8</sup> Dd<sup>6</sup> χ<sup>6</sup>; 222ℓ.; [2], [i]-xviii, [1]-412, [12] index p. The 12 page index is not present in all copies. PAGE SIZE: 214 x 128 mm.

CONTENTS: [2 pgs], Title page, verso blank.; [i]-xiv, "Preface."; [xv]-xviii, "Contents."; [1]-173, "Elements | Of | Mineralogy," page starts: "Part I. | Of Earths and Stones."; 174-207, "Part II. | Saline Substances."; 208-225, "Part III. | Inflammables."; 226-372, "Part IV. | Metallic Substances."; 373-397, "... | Geological Observations."; 398, "Table I."; 399-402, "Table II."; 403-412, "Table III."; [12 pgs], "Index."

VERY SCARCE. The first systematic mineralogy in English that classifies minerals by their chemical composition. In the preface, Kirwan deplors the insignificant position that mineralogy holds in British science. He contrasts this to the progress made in Europe, especially Sweden, Germany and France. He then presents his reasons for writing the work. Citing that until recent advances in chemistry, mineralogy had never had an adequate base on which a system of classification could be founded, Kirwan discusses other methods of classification. While describing these other arrangements, he questions the merits of systems such as Romé de l'Isle's based on crystal form and Werner's based on external characters. He concludes that mineralogy must be considered a branch of chemistry. In this regard, Kirwan follows Cronstedt and uses the later's basic classification, subjugating the mineral species into Earths and Stones, Salts, Inflammables and

Metals, based upon the species' chemistry.

Kirwan copies from other author's in his mineral descriptions but gives interesting notes that suggest he duplicated the analyses of some species. He appends a chapter to the first part of the work that describes in some detail the procedures for determining analytically a minerals chemistry. Later, several tables are provided that give the results of many analyses. A table listing the specific gravities of gemstones is also included. The section of "Geological Observations" was of great controversy among the geologists of the day.

Of particular historical interest to the properities of minerals is a section on pages 171-73 proposing a hardness scale for minerals. The original to this was published in Stockholm by Bengt Andersson Quist [q.v.] as "Försök på en del Kisel arter och i synnerhet de hårdare så kallade Äkta stenar," *Kongl. Svenska Wetenskaps Acad. Handlingar*: 29 (1768), 55. This scale of hardness slightly modified by Kirwan is the first to be published in an English book. It is comprised of twenty divisions ranging from chalk (3) to diamond (20).

**Related work, 1799:** Geological Essays. Besides his mineralogical works, Kirwan also authored *Geological Essays* (London, 1799) in which he vigorously opposed James Hutton's geological theories.

REFERENCES: BMC: 2, 987. • Cole, *Chemical Literature*, 1988: no. 716. • Dana's 7th (Bibliography): 75. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 38. • Hoover Collection: no. 486. • LKG: XII 104. • Lowndes, *Bibliographer's Manuel*, 1857-64: 5, 1280. • NUC: 298, 83 [NK 0167534]. • Ward & Carozzi, *Geology Emerging*, 1984: no. 1261.

**2674. 2nd edition, 1794-6:** Elements | of | Mineralogy. | [tapered rule] | By | Richard Kirwan, Esq. F.R.S. & M.R.I.A. | of the Academies of Stockholm, Upsal, | Berlin, Manchester, Philadelphia, &c. | [rule] | Second Edition, | with | considerable improvements and | additions. | [rule] | Vol. I. [-II.] | Earths and Stones. [-Salts, Inflammables, and Metallic Substances.] | [rule] | London: | Printed by J. Nichols, | For P. Elmsly, in the Strand. | [tapered rule] | M DCC XCIV.

2 vols. [Vol 1: 1794] 8°: [a]-b<sup>8</sup> B-Z<sup>8</sup> Aa-Ii<sup>8</sup> Kk<sup>7</sup>; 271ℓ.; [i]-xxxii, [1] blank, [1]-510 p. [Vol 2: 1796] 8° in 4s: [a]-b<sup>4</sup> χ<sup>1</sup> B-Z<sup>4</sup> Aa-Zz<sup>4</sup> Aaa-Ppp<sup>4</sup> Qqq<sup>3</sup> \*Qqq<sup>6</sup> [folding tables] Qqq<sup>1</sup> [last leaf of Qqq<sup>4</sup>] Rrr-Uuu<sup>4</sup> Xxx<sup>2</sup>; 278 leaves (6 folding); [4], v-xvi, [1] errata, [1] blank, [1]-529, [1] blank p., 3 folding tables on 6 leaves (split upon pages 487 to 492). In examining multiple copies of volume 2, it has been found that in some cases the original half title and title page have been excised, and a new title page has been glued on the stub. PAGE SIZE: 210 x 122 mm.

CONTENTS: [Vol 1] [i-ii], Half title page, "Elements | Of | Mineralogy. | Vol. I.," verso blank.; [iii-iv], Title page, verso blank.; v-xvi, "Preface."—dated Dublin, 1 January 1795.; xvii-xxvii, "Contents."; [xxviii], Blank.; xxix-xxxii, "Errata."; [1 page], Blank.; [1]-392, Text.; 393, "First Appendix. | Diamond."; 394-458, "Second Appendix. | Of Stones and Earths that owe their Origin to | Fire."; 459-507, "Third Appendix. | Of the Chemical Analysis of Earths | and Stones."; [508], Blank.; 509-510, "Addition."—at end, "End of Vol. I.";

[Vol 2] [2 pages], Half title page, "Elements | Of | Mineralogy. | Vol. II.," verso blank.; [2 pages], Title page, verso blank.; v-xvi, "Contents."; [1 page], "Errata."; [1 page], Blank.; [1]-481, Text.; 482-485, "Table | Of The | Composition | Of | Metallic Calces."; [486], Blank.; [6 folding leaves of tables, numbered for pages 487 to 492]; 493-503, "Notes | On The | Table of Calces."; 504-506,

"Notes | On The | Second Table."; 507–513, "Notes | On The | Third Table."; 514–529, "Experiments | On The | Composition and Proportion of Carbon, | in Bitumen and Mineral Coal."; [1 page], Blank.

VERY SCARCE. An enlarged and entirely rewritten work based upon Wernerian theories. Kirwan the greatest mineralogist in Ireland was called upon by the parliament in 1792 to participate in a committee to purchase the mineral collection of Nathanael Gottfried Leske [q.v.]. To negotiate the matter he travelled to Germany where he met and became a disciple of Abraham Gottlob Werner [q.v.]. Kirwan was so enthusiastic about Werner's theories, that when he became involved in setting up the newly acquired collection in Ireland, he arranged its specimens according to his friend's ideas of classification. In the preface, Kirwan states that it was this experience that allowed him to write the second edition of the *Elements*. The book's considerable enlargement is due in no small matter to the many more analyses and descriptions the author was able to include because of his access of the Leskean minerals. The arrangement of the text follows closely that of the first edition.

REFERENCES: BMC: 2, 987. • Cole, *Chemical Literature*, 1988: no. 717. • Dana's 7th (Bibliography): 75. • *Freilich Sale Catalog*: no. 313. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 38. • LKG: XII 104. • Lowndes, *Bibliographer's Manual*, 1857-64: 5, 1280. • NUC: 298, 83 [NK 0167535]. • Partington, *History of Chemistry*, 1961-70: 1, 662. • Sinkankas, *Gemology Bibliography*, 1993: no. 3431. • Ward & Carozzi, *Geology Emerging*, 1984: no. 1262.

**2675. 3rd edition, 1810:** Elements | of | Mineralogy. | [tapered rule] | By | Richard Kirwan, Esq. | P.R.I.A. F.R.S.L.&E. | Of the Academies of Stockholm, Upsal, Berlin, Manchester, | Philadelphia, &c. | [tapered rule] | The Third Edition. | [tapered rule] | In Two Volumes. | Vol. I. [-II.] | Earths and Stones. [-Salts, Inflammables, and Metallic Substances.] | [double rule] | London: | Printed for J. Mackinlay, 87, Strand. | [rule] | 1810.

2 vols. [VOL 1] 8<sup>o</sup>: a<sup>8</sup> b<sup>4</sup> B-Ff<sup>8</sup> Gg<sup>2</sup>; 238ℓ.; [ii]-xxiv, [1]-452 p.; [VOL 2] 8<sup>o</sup>: π<sup>2</sup> a<sup>4</sup> B-Dd<sup>8</sup> Ee<sup>2</sup> Ff<sup>6</sup> Gg<sup>8</sup> Hh<sup>3</sup>; 236ℓ.; [ii]-xiv, [1]-459 p., 3 folding tables on 6 leaves (split upon pages 427 to 438). PAGE SIZE: 210 x 128 mm.

CONTENTS: [Vol 1] [i-ii], Half title page, "Elements | Of | Mineralogy. | Vol I."; [iii-iv], Title page, verso "London: Printed by B. McMillan."; [v]-xv, "Preface | To The | Second Edition."; [xvi], "Errata."; [xvii]-xxiv, "Contents | Of Volume I."; [1]-452, Text;

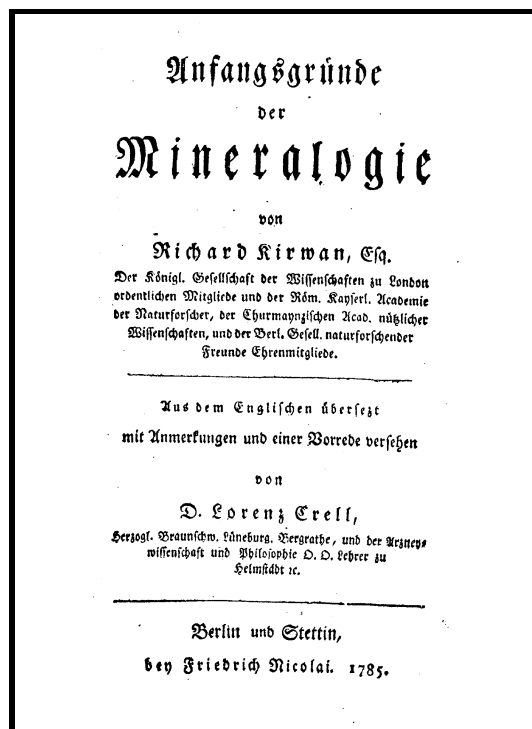
[Vol 2] [i-ii], Half title page, "Elements | Of | Mineralogy. | Vol II."; [iii-iv], Title page, verso blank; [v]-xiv, "Contents | Of Vol. II."; [1]-416, Text.; 417-420, "Table | Of The | Composition | Of | Metallic Calces."; [3 folding tables]; 427-438, "Notes | On The | Tables Of Calces."; 439-444, "Notes On The Third Table."; 445-459, "Experiments | on the | Composition And Proportion Of Carbon, | In Bitumens And Mineral Coal."

VERY SCARCE. Essentially a reprint of the 1794-96 edition with the text entirely reset. According to Blakewell, it was published "against [Kirwan's] approbation" because he had "declined for some time previously the further cultivation of the science." [R. Blakewell, *An Introduction to Mineralogy*, London, 1819, iv].

REFERENCES: BMC: 2, 987. • Dana's 7th (Bibliography): 75. • NUC: 298, 83 [NK 0167536]. • Ward & Carozzi, *Geology Emerging*, 1984: no. 1263.

**2676. — German, 1785** [First edition].

Anfangsgründe | der | Mineralogie | von | Richard Kirwan, Esq. | [...5 lines of titles and memberships...] | [rule] | Aus dem Englischen übersezt | [!] | mit Anmerkungen und einer Vorrede versehen | von | D. Lorenz Crell, | [...3 lines of titles and



ANFANGSGRÜNDE DER MINERALOGIE, 1785

memberships...] | [rule] | Berlin und Stettin, | bey Friedrich Nicolai. 1785.

8<sup>o</sup>: π<sup>1</sup> a-b<sup>8</sup> A-Gg<sup>8</sup>; 256ℓ.; [32], [1]-462, [18] p. PAGE SIZE: 170 x 100 mm.

CONTENTS: [2 pages], Title page, verso blank; [2 pages], Series title page, verso blank; [8 pages], "Vorbericht | des Herausgebers."—signed D.L. Crell.; [16 pages], "Vorrede."; [4 pages], "Inhalt."; [1 page], "Anfangsgründe | der | Mineralogie."; [2 page], Blanks; [3]-462, Text.; [18 pages], "Register."

SCARCE. According to LKG, this work was translated by J.H. Wittekop from *Elements of Mineralogy* (London, 1784). It also contains a forward by Lorenz Crell. A second volume also published in 1785 is a translation of Kirwan's work on the phlogiston. It has the title: Versuche und Beobachtungen | über | die spezifische Schwere und die Anziehungskraft | verschiedener Salzarten; | und über | die wahre neuentdeckte Natur | des | Phlogiston's | von | Richard Kirwan, Esq. | [...5 lines of titles and memberships...] | [rule] | Aus dem Englischen übersezt | und | mit Anmerkungen und einer Vorrede versehen | von | D. Lorenz Crell, | [...3 lines of titles and memberships...] | [rule] | Zweyter Band. | [rule] | Berlin und Stettin, | bey Friedrich Nicolai. 1785.

REFERENCES: *Allgemeine Literatur-Zeitung*: 4 (1785), 315. • *Freilich Sale Catalog*: no. 312. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 38. • Hamberger & Meusel, *Gelehrte Teutschland*, 1796-1834: 8, 572 [Wittekop]. • LKG: XII 105a. • Sinkankas, *Gemology Bibliography*, 1993: no. 3433 [Abbrev. entry].

**2677. 2nd edition, 1796-9:** Anfangsgründe | der | Mineralogie

## KIRWAN

| von | Richard Kirwan, Esq. | [...6 lines of titles and memberships...] | [rule] | Zweyte Ausgabe | mit beträchtlichen Verbesserungen und Zusätzen. | [rule] | Aus dem Englischen übersetzt, | und mit Anmerkungen und einer Vorrede versehen | von | D. Lorenz von Crell. | [...2 lines of titles and memberships...] | Erster Band. | Erden und Steine. | [rule] | Berlin und Stettin, | bey Friedrich Nicolai. 1796.

[VOLUME 2 READS:]

Anfangsgründe | ... | Zweyter Band. | Salze, brennbare Körper und metallische Substanzen. | [rule] | Berlin und Stettin, | bey Friedrich Nicolai, 1798.

[VOLUME 3 READS:]

Anfangsgründe | ... | Dritte Band. | Geologische Versuche über die uranfängliche Entstehung | unserer Erdkugel, und ihre nachmaligen Umwälzungen | bis zu ihrem jetzigen Zustande. | Berlin und Stettin, | bey Friedrich Nicolai, 1799.

[VOLUME 1 SERIES TITLE PAGE:]

Richard Kirwan's, Esq. | [...5 lines of titles and memberships...] | Physisch=chemische | Schriften. | [rule] | Des zweyten Bandes erste Abtheilung, | enthaltend: | der Mineralogie | Erste Abtheilung. | [rule] | Aus dem Englischen übersetzt | von | D. Lorenz von Crell. | [...2 lines of titles and memberships...] | [rule] | Berlin und Stettin, | bey Friedrich Nicolai. | 1796.

3 vols. [VOL 1: 1796] 8°: \*2 A-Kk<sup>8</sup>; 272ℓ.; [2], [i]-xvi, [1]-525, [1] p. PAGE SIZE: 168 x 100 mm.

CONTENTS: [Vol 1] [2 pgs], Series title page, verso blank; [i-ii], Title page, verso blank; [iii]-x, "Vorrede | zu der Uebersetzung."—signed D.L. von Crell, 6 April 1796; [xi]-xxvi, "Vorrede des Verfassers."; [xxvii]-xxxviii, "Inhalt."; [1], Sectional title page, "Anfangsgründe | der | Mineralogie. | [rule] | Erster Band."; [2], Blank.; [3]-686, Text.; [1 pg], Errata.; [1 pg], Blank.

[Vol 2] [2 pgs], Series title page, verso blank; [i-ii], Title page, verso blank; [iii]-vi, "Vorrede."—signed D.L. von Crell, 30 April 1798; [vii]-xviii, "Inhalt. | Zweyter Theil."; [1], Sectional title page, "Anfangsgründe | der | Mineralogie. | [rule] | Zweyter Band."; [2], Blank.; [3]-652, Text (pages 593-598 are folding tables.); [653]-672, "Register."; [2 pgs], "Verbesserungen."

[Vol 3] [2 pgs], Series title page, verso blank; [i-ii], Title page, verso blank; [iii]-xiv, "Vorrede."—signed D.L. von Crell, 4 April 1799; [xv]-xvi, "Inhalts=Anzeige | der geologischen Versuche."; [1], "Geologische | Versuche."; [2], Blank.; [3]-525, Text.; [1 pg], Blank.

SCARCE. Translation by Lorenz Crell of *Elements of Mineralogy* (2nd ed., London, 1794-6). Included in this translation as volume three, which renders into German Kirwan's *Geological Essays* (London, 1799).

**Lorenz Florenz Friedrich von Crell.** (BORN: Helmstädt, Germany, 21 January 1744; DIED: Göttingen, Germany, 7 June 1816) *German mining expert.* Crell was the first professor of chemistry and mineralogy at the Carolinum in Braunschweig, 1771-73. Later he was appointed professor of philosophy and medicine at the University of Helmstädt. Crell ended his career as professor of chemistry at the University of Göttingen.

REFERENCES: Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 38. • *Göttingische Anzeigen*: Oct., 1796, 1700. • LKG: XII 106b. • *Neue Allgemeine deutsche Bibliothek*: 30(1), 42. • NUC: 298, 83 [NK 0167527]. • Ward & Carozzi, *Geology Emerging*, 1984: no. 1266. (Crell) *Catalogue of Portraits of Naturalists*: 321 [1 portrait listed]. • Poggendorff: 1, col. 495.

**2678. French transl., 1785:** *Éléments | de | Minéralogie*, traduits de l'Anglois de M. Kirwan, Membre | de la Société Royale de Londres, | Par M. Gibelin, Docteur en Médecine, Membre | de la Société Médicale de Londres, &c. | [ornament] | A Paris, | Chez Cuchet, Libraire, Rue & Hôtel | Serpente. | [ornate rule] | M. DCC. LXXXV. | Avec Approbation, & Permission du Roi.

8°: π<sup>3</sup> a<sup>7</sup> b-c<sup>8</sup> A-Z<sup>8</sup> Aa-Dd<sup>8</sup>; 242ℓ.; [6], [iii]-xlvi, [1]-432 p., index, tables. PAGE SIZE: 204 x 118 mm.

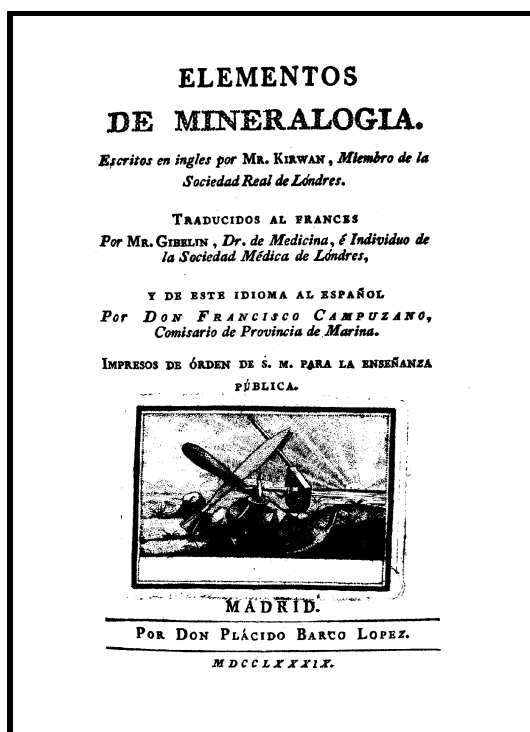
[1]-432 p., index, tables. PAGE SIZE: 204 x 118 mm.

CONTENTS: [2 pages], Title page, verso blank; [4 pages], Dedication to De Calonne, signed [Jacques] Gibelin.; [iii]-xxi, "Préface | de l'Auteur."; [xxii]-xxiv, "Avertissement | du Traducteur."; xxv-xlvi, "Table | des Chapitres."; xlvii-xlviii, "Approbation."; [1]-421, Text.; 422-432, "Table | Alphabétique | des Matieres."

VERY SCARCE. Translation by J. Gibelin from *Elements of Mineralogy* (London, 1784).

**Jacques Gibelin.** (BORN: Aix, France, September 1744; DIED: Aix, France, 4 February 1828) *French physician.* Gibelin was a doctor of medicine and a naturalist. After travelling for many years throughout France and England, he was appointed conservator of the library for the Provence of Aix.

REFERENCES: BMC: 2, 987. • LKG: XII 107c. • NUC: 298, 83 [NK 0167531]. • Sinkankas, *Gemology Bibliography*, 1993: no. 3432 [Abbrev. entry]. • Ward & Carozzi, *Geology Emerging*, 1984: no. 1264. (Gibelin) Poggendorff: 1, col. 892.



ELEMENTOS DE MINERALOGIA, 1789

**2679. Spanish transl., 1789:** *Elementos | De Mineralogia.* | Escritos en Inglés por Mr. Kirwan, Miembro del la | Sociedad Real de Lóndres. | Traducidos al Frances | Por Mr. Gibelin, Dr. de Medicina, é Individuo de | la Sociedad Médicade Londres, | Y de Este Idioma al Español | Por Don Francisco Campuzano, Comisario de Provincia de Marina. | Impresos de órden de S.M. Para la Enseñanza | Pública. | [vignette] | Madrid. | [rule] | Por Don Plácido Barco Lopez. | [rule] | MDCCLXXIX.

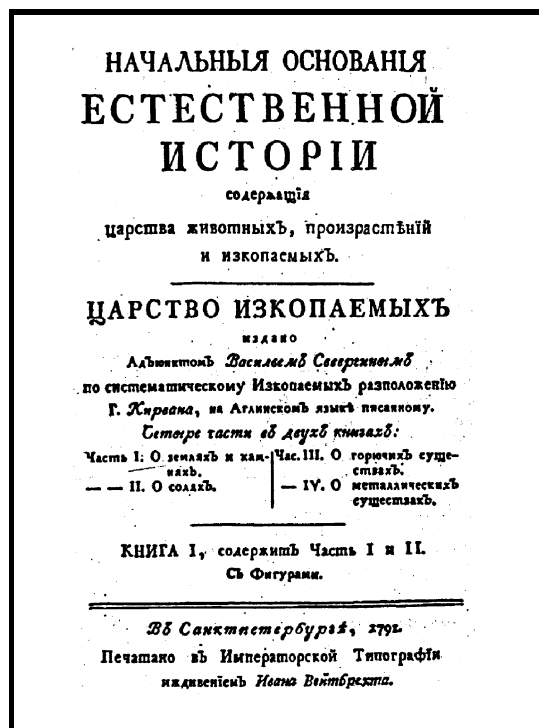
4°: π<sup>4</sup> \*3\*4 4\*2 a-b<sup>4</sup> A-Z<sup>4</sup> Aa-Zz<sup>4</sup> Aaa<sup>4</sup> Bbb<sup>2</sup>; 218ℓ.; [8], 1-28, I-XVI, 1-384 p., one plate (blow-pipe, spoon, & hammer). PAGE SIZE: 205 x 142 mm.

CONTENTS: [2 pages], Half title page, "Elementos De Mineralogia," verso blank; [2 pages], Title page, verso blank; [2 pages], "Introduccion."; [2 pages], "Advertencias."; 1-28, "Tabla general de las materias contendias en este volumen."; I-XIII, "Discurso Del

Autor.”; XIV–XVI, “Advertencia del Tradutor Frances.”; 1–384, Text.; [At end], Plate.

VERY SCARCE. Translation by Francisco Campuzano from *Éléments de Minéralogie* (Paris, 1785). This rare book is the first work in Spanish dealing solely with the science of mineralogy. In Campuzano's notes, a case is made for the study of the science. The translator suggests that great knowledge and national prestige will be gained from discovering how minerals interact with chemistry, a question which then agitated the scientists of Europe. Following Kirwan, the mineral kingdom is divided into four groups: earths and stones, salts, inflammable substances and metallic substances. The principal characters of each group are described together with the minerals that belong to it. An Appendix contains a brief account of geology and its principal phenomena, as well as a short description of the blowpipe and its use which is illustrated by the accompanying plate. That mineralogy was in flux as a science is evident throughout the volume from the translator's difficulty with dealing in the various terminology.

REFERENCES: *Annals de Chimie*: 23 (1797), 102–6 [by Guyton de Morveau, 1 only]. • *Gothäische gelehrte Zeitungen*: 1 (1785), 34. • Maffei & Rua Figuera, *Bibliografia Mineral*, 1871–2: 1, 382, no. 1286. • NUC: 298, 83 [NK 0167533]. • Palau, *Manual*, 1948–77: no. 128076. • Sinkankas, *Gemology Bibliography*, 1993: no. 3431. • Ward & Carozzi, *Geology Emerging*, 1984: no. 1265.



NACHAL'NYIA OSNOVANIIA, 1791

2680. Russian transl., 1791: Начальныя основанія Естественной Исторіи, содержащая царства животныхъ, произрастѣній и ископаемыхъ. Изданіемъ Ивана Вейтбрехта.

[TRANSLITERATED TITLE:]

[Nachal'nyia osnovaniia estestvennoi istorii, soderzhashchiiia tsarstva zhiivotnykh, proizrasteniĭ, i izkopaemykh.

Izhdiveniem Ivana Veitbrekhta]. St. Petersburg: Imperial Academy of Sciences, 1791.

2 vols. [VOL 1] 8°: [16], 367, [1] blank p.; [VOL 2] 8°: [6], 334 p., including 3 leaves of tables.

VERY SCARCE. “The Foundations of Natural History” was published in 3 sections totaling 7 volumes from 1791 to 1794. The second part here described is a translation by the great Russian mineralogist Vasilii Mikhaĭlovich Severgin [q.v.] of *Elements of Mineralogy* (1st ed., London, 1784). It has been greatly enlarged and supplemented by the translator, almost to the point of calling it a new work. It classifies and describes minerals on the basis of chemical composition. Volume one contains descriptions of the Earths and Stones and the Salts, while the second describes Inflammable Substances and the Metals.

It has the added title, Царство изкопаемых издано адъюнктом Василем Севергиним по систематическому изкопаемых разположенію г. Кирвана, на аглинском языке писанному. [Tsarstvo izkopaemykh izdano ad'nyunktom Vasil'em Severginym po sistematicheskomu izkopaemykh razpolozheniu g. Kirvana, na aglinskoi iazyke pisannomu].

REFERENCES: NUC: 404, 170 [NN 0002755]. • Sopikov, *Essay in Russian Bibliography*, 1904–8: no. 6689. • *Svodnyi Katalog Russkoĭ Knigi*: no. 4511.

## 2681. — English, 1800.

Of | Chymical | and | Mineralogical |  
Nomenclature. | [tapered rule] | By Richard Kirwan,  
Esq; L.L.D. F.R.S. and P.R.I.A. | [tapered rule] |  
Dublin: | George Bonham, | Printer to the Royal  
Irish Academy. | [double rule] | 1800.

4°: [A]–C<sup>4</sup> D<sup>1</sup>; 13ℓ.; [1]–26 p. PAGE SIZE: 245 x 175 mm.

CONTENTS: [1–2], Title page, verso blank.; [3]–26, Text.

RARE. Separate issue of a paper first published in the *Transactions of the Royal Irish Academy of Science* [See: 8 (1800), 53–76]. Kirwan was prompted to author this article as a reponse to Guyton de Morveau's attacks against his mineralogical terminology (*Annales de Chemie* [See: 23 (1797), 103–4].

Kirwan being the leader of the old school of chemistry became the lightning rod for attacks by supporters of the the new chemistry. Morveau, a man Kirwan greatly admired, was an enthusiastic supporter of Lavoiser's [q.v.] new chemistry and one of the principal reformers of chemical and mineralogical nomenclature. However, these attacks contributed to Kirwan's growing disenchantment with chemistry and mineralogy and eventually led to his retirement from the studies.

REFERENCES: NUC: 298, 84 [NK 0167569].

## 2682. — English, 1799.

Geological essays. London, Printed by T. Bensley for D. Bremner, 1799.

8°: [i]–xvi, [1]–502 p.

CONTENTS: [i–ii], Title page, verso blank.; [iii]–xii, “Preface.”; [xiii]–xvi, “Table Of Contents.”; [1]–502, Text.

VERY SCARCE. In addition to his papers and books on chemistry, Kirwan wrote *Geological Essays* (1799), a controversial response to the pioneering work of geologist James Hutton. Kirwan was a devout, orthodox Christian. For him, geology was



## KJERULF

the handmaiden of true religion, and he repeatedly expressed alarm at systems of geology that struck him as favorable to atheism. The *Essays* advocates flood geology and vigorously opposes the increasingly influential uniformitarian theories of geologist James Hutton.

REFERENCES: NUC. • Roller & Goodman, *Catalogue*, 1976. • *USGS Library Catalog*.

**KISLING, Johann.** (BORN: Naumberg, Schesia, Germany, 17 April 1713; DIED: Prag (Praha), Czech Republic, 23 April 1748) *German Jesuit*.

Kisling was a professor of philosophy at the University of Prague.

REFERENCES: DBA: I 653, 338-341. • Jöcher, *Gelehrten-Lexikon, Supplement*. • Poggendorff: 1, col. 1264. • WBI. • Wurzbach, *Biographisches Lexikon Österreich*, 1856-91.

### 2683. — Latin, 1784.

Compendium Physicae Experimentalis de Corporibus Mixtis Mineralibus Generatim, et de Admirandis Regni Bohemiae Metallis, Lapidibus et Succus Fossilibus in Specie. Pragae, 1784.

8°:

RARE. A compendium of observations on the mineral bodies found in Bohemia. Included are discussions of their probable formation inside the earth, together with a list of the various metals, stones, and other fossils found in the region. The book is dedicated to Emperor Rudolf, and includes an interesting section describing his mineral collection, as well as a description of the Jesuit maintained mineral collection at the Clementinum in Prague.

REFERENCES: LKG: XIV 64. • Wrany, *Geschichte der Chemie in Böhmen*, 1902: p. 28.

**KISSNER, C. Albert.** (BORN: 1819; DIED: 1874) *German preacher*.

REFERENCES: DBA: I 653, 412. • WBI. • Weisfert, Julius Nicolaus., *Biographisch-literarisches Lexikon für die Haupt- und Residenzstadt Königsberg und Ostpreussen*. Zweite Auflage. Königsberg, 1898.

### 2684. — German, 1874 [Collection catalog].

Die Steine und Erde unserer Mineralsammlung. Vom Rector (i.e., A. Kissner). Königsberg in Pr., Dr. von E.J. Dalkowski, 1874.

4°: 23 p. Privately published catalog of the stones and earths contained in C. Albert Kissner's mineral collection. VERY RARE.

REFERENCES: NUC.

## KJELLBERG, Björn.

### 2685. — Swedish, 1894 [Collection catalog].

Förteckning | öfver | Stora Kopparbergs Bergslags Aktiebolags | Mineralkabinett | Upprättad år 1894 | af | Björn Kjellberg | Auskultant i Kongl. Kommersekollegium.

8°:  $\pi^8$  1-30<sup>8</sup>; 73<sup>l</sup>.; [1]-146 p.

CONTENTS: [1-2], Title page, verso "Lindesberg Oriel Blombergs Boktryckeri 1895".; [3]-5, Foreword by Carl

Sahlin.; [6], Blank.; [7]-141, Catalogue.; [142], Blank.; [143]-146, Index.

RARE. Catalogue over the mineral collection of Stora Kopparbergs mining company, that were operating the copper mine at Falun. The collection consist, it still exists, of four parts: the Bielke collection; a collection of minerals and rocks from the copper mine at Falun; a small collection of minerals from the Grängesberg iron ore field; a less important collection brought together by mine officials from abroad as well as material from the mine at Falun. The collection of count Nils Adam Bielke [1724-1792] is the most important as it is the only complete private 18th century mineral collection in Sweden (and maybe the whole of Scandinavia) that is complete and not dispersed within a larger collection. It was first donated to the Ädelfors goldworks but later transferred to Falun by Bielkes widow. It consists of 7000 specimens distributed over approximately 5300 no's of which 2/3 are minerals. [Entry by Johan Kjellman]

REFERENCES: NUC. • SWIM.

**KJERULF, Theodor.** (BORN: Christiania [now Oslo], Norway, 30 March 1825; DIED: Christiania [now Oslo], Norway, 25 October 1888) *Norwegian mineralogist & geologist*.

Kjerulf was educated in the University at Christiania, and subsequently studied at Heidelberg, working in Bunsen's laboratory. In 1858 he became professor of geology in the university of his native city, and he was afterwards placed in charge of the geological survey of the country, then established mainly through his influence. His contributions to the geology of Norway were numerous and important, especially in reference to the southern portion of the country, and to the structure and relations of the various rock structures and the glacial phenomena. His principal results were embodied in his geological work *Udsigt over det sydlige Norges Geologi* (Kristiania, 1879). He also authored some poetical works.

REFERENCES: *Encyclopaedia Britannica*, 11th edition. • *Geological Magazine*: 25 (1888), 574-5. • *Geologiska Föreningens i Stockholm Förhandlingar*: 10 (1888), 442-7. • *Naturen*: 12 (1888), 353-62, portrait [lengthy obituary by T. Hiortdahl]. • *Neues Jahrbuch für Mineralogie, Geologie und Paläontologie*: Jg. 1889, 1, p. 1-2. • *Norsk Geologisk Tidsskrift*: 1880, 272-8. • *Quarterly Journal of Geological Society of London*: 45 (1889), 38-9. • Sarjeant, *Geologists*, 1980: 2, 1459. • SBA: Scandinavian Biographical Archive: A-171, 119-134. • WBI.

### 2686. — Norwegian, 1865 [First edition].

Stenriget og Fjeldlæren af Theodor Kjerulf. Kristiania, Stensballe, 1865.

8°: vi, 240 p., illus.

RARE. First edition of this well known work on mineralogy and field geology. Divided into three sections, the first discusses mineralogy and petrology, followed by a large section on the formation and structure of the earth's crust, and concluding with a summary of the geology of southern Norway. Throughout are interested woodcuts illustrating concepts discussed in the text, including two full page illustrations showing gigantic crystals extracted from a pegmatite.

REFERENCES: BL: [7704.b.20.]. • BMC: 2, 989 [wanting]. • NUC.

**2687. 2nd edition, 1870:** Stenriget og Fjeldlæren. 1. Om stene og bergslag. 2. Jordskorpens sammenføining. 3. Norges fjeldbygning. Med 360 i texten trykte træsnit. Udgivet efteropfordring og med understøttelse af den kongelige norske regjerings departement for det indre Mørkegrønt skinn halvband med gulddekoreret og opphøgd rygg. Kristiania, P.F. Steensballe, 1870.

8°: vi, 279 p., 360 illus. RARE.

REFERENCES: NUC.

**2688. 3rd edition, 1878:** Stenriget og Fjeldlæren ... 1. Om Stene og Bergarter. 2. Jordens korpens ... 3. Norges Fjeldbygning. Med 400 i Texten trykte Træsnit samt af et farvetrykt Kart. Tredie omarbeided Udgave ... Kristiania, P.F. Steensballe, 1878.

8°: vi, 292 p., one folding colored map of southern Norway, 400 illus. RARE.

REFERENCES: BL. • BMC: 2, 989. • NUC.

### 2689. — Norwegian, 1892.

Beskrivelse af en række norske bergarter. Kristiania, I kommission hos H. Aschehoug & Co., 1892.

8°: 2, 91, [1] p., plates. Notes: Programm-Univ. Christiania.

RARE. Kjerulf's description of the geology and petrology of his native Norway, with special emphasis on analyses of the igneous rocks of the region.

REFERENCES: NUC. • USGS Library Catalog.



KLAPROTH

**KLAPROTH, Martin Heinrich.** (BORN: Wernigerode, Germany, 1 December 1743; DIED: Berlin, Germany, 1 January 1817) *German apothecary & chemist.*

Klaproth was the third son of a tailor. In 1759, he was apprenticed to a Quedlinburg apothecary. In 1766, he moved to Hannover, then in 1768 to Berlin, where he managed the apothecary shop of the deceased Valentin Rose the Elder. In 1780, using his wife's dowry, he purchased his own apothecary shop. In 1782, Klaproth was named to the Prussian medical board, and he successively moved through the bureaucracy as assessor (1782-97), councilor (1797-99), and high councilor (1799-1817). He had teaching posts that included: private lecturer at the

Medical-Surgical College (1782-1810), General War School (1787-1812), and professor of chemistry in the University of Berlin's Philosophical Faculty (1810-17). Klaproth was the outstanding analytical chemist of his time, being the discovery or co-discovery of the elements: zirconium (1789), uranium (1789), titanium (1792), strontium (1793), chromium (1797) and cerium (1803). He also confirmed the previous discoveries of tellurium (1798) and beryllium (1798). He was influential in spreading A. LAVOSIER's theories throughout Germany, and earning him the description, "Father of analytical chemistry." Klaproth also pioneered the application of chemistry to archaeology. Among many memberships in 1795 he was elected a Fellow of the Royal Society and in 1804 a foreign associate of the Institute of France. The discredited mineral species "Klaprothite" and "Klaprotholite" was named for him in 1811 and 1872.

REFERENCES: ADB: 16, 60-61. • Barr, *Index to Biographical Fragments*, 1973: 141. • Dann, G.E., *Martin Heinrich Klaproth (1743-1817). Ein deutscher Apotheker und Chemiker. Sein Weg und seine Leistung.* Berlin, 1958. [i]-x, [1]-171 p., 23 plates. • DBA: I 655, 106-128; II 709, 418-433. • Drugulin, *Sechstausend Portraits*, 1863: nos. 2935-40 & 6174. • DSB: 7, 394-5 [by K. Hufbauer]. • *Encyclopaedia Britannica*, 11th edition. • *Great Chemists*: 293-302, portrait. • Hufbauer, *German Chemical Community*, 1982. • Ihde, *Development of Modern Chemistry*, 1964. • *ISIS*, 1913-65: 2, 22-3. • NDB: 11, 707-9 [by G.E. Dann]. • Poggendorff: 1, cols. 1266-9. • Schaedler, *Biographisch Handwörterbuch*, 1891: 58. • Szabadváry, *History of Analytical Chemistry*, 1966: 117-24, portrait. • Thomson, *History of Chemistry*, 1830-1: 2, 191-210. • WBI. • *World Who's Who in Science*: 941.

### 2690. — English, 1787.

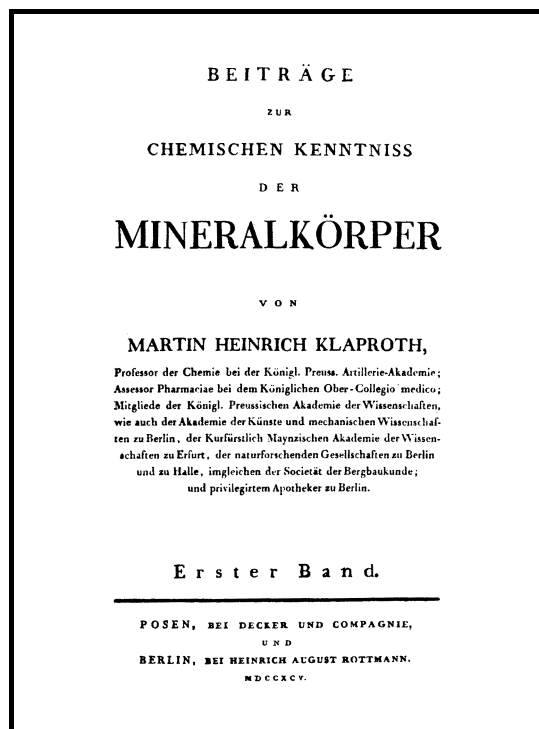
Observations | relative to the | Mineralogical and Chemical | History | of the | Fossils of Cornwall. | By Martin Henry Klaproth, | [...3 lines of titles and memberships...] | Translated From The German | By John GottliebGroschke, M.D. | Professor Of Natural History In The College Of Mitav. | [tapered rule] | London: | Printed For J. Johnson, No. 72, St. Paul's | Church-Yard. | [rule] | M, DCC. LXXXVII.

8°: [i]-vii (i.e., viii), [i]-iv, 5-84 p., frontispiece (hand-colored). PAGE SIZE: 203 x 121 mm.

CONTENTS: [i-ii], Title page, verso blank.; [iii], Dedication to Baron de Offenberg.; [iv], Blank.; v-viii, "Advertisement."; [i]-iv, "Introduction."; 5-84, Text.

VERY SCARCE. Translated by John Gottlieb Groschke. This treatise by the greatest German chemist of his time, deals with the chemical analysis of tin and copper ores from Cornwall, England. Although originally published as an article (see: *Schriftteller der Gesellschaft für Naturforscher in Berlin*, 7, 1786), the thoroughness of the study was considered important enough to have this English translation prepared. It is based on research done in cooperation with the English geologist, John Hawkins, who supplied samples of the ores. Using these specimens, Klaproth preformed many chemical experiments, and the descriptions of his tests together with their results makeup the content of the book. The frontispiece illustrates various specimens of wood tin (cassiterite).

REFERENCES: Fischer, *Mineralogie in Sachsen*, 1939: 303, no. 801. • LKG: XIV 439. • NUC: 298, 449.



BEITRÄGE ZUR CHEMISCHE KENNTNISS, 1795

**2691. — German, 1795-1815.**

Beiträge | zur | Chemische Kenntniss | der | Mineralkörper | von Martin Heinrich Klaproth, | [...8 lines of titles and memberships...] | Erster Band. [-Sechster Band.] | [rule] | Posen, bei Decker Und Compagnie, | und | Berlin, bei Heinrich August Rottmann. | MDCCXCV. [-MDCCCXV.]

6 vols. [VOL 1] 8°: [i]-xvi, [1]-374, [2] publisher's list p.; [VOL 2] 8°: [i]-xii, [1]-332 p.; [VOL 3] 8°: [i]-x, [1]-331, [1] errata p.; [VOL 4] 8°: [i]-xii, [1]-396 p.; [VOL 5] 8°: [i]-viii, [1]-264, [i]-xv, [1] blank p. [VOL 6] 8°: [iii]-viii, [1], [1] blank, [1]-380 p., [one plate?]. PAGE SIZE: 204 x 115 mm.

CONTENTS: [Vol 1] [i-ii], Title page, verso blank.; [iii], Dedication to John Hawkins.; [iv], Blank.; [v]-xiv, "Vorbericht."; xv-xvi, "Inhalt."; [1]-374, Text.; [2 pgs], Publisher's list.

[Vol 2] [i], Half title page, "Klaproths Beiträge zur chemischen Kenntniss der Mineralkörper. Zweite Band."; [ii], Publisher's list.; [iii]-[iv], Title page, verso blank.; [v], Dedication to Dietrich Ludwig Gustav Karsten.; [vi], Blank.; [vii]-viii, "Vorbericht."; ix-xii, "Inhalt des zweiten Bandes."; [1]-332, Text.;

[Vol 3] [i], Half title page, "Klaproths Beiträge zur chemischen Kenntniss der Mineralkörper. Dritter Band."; [ii], Publisher's list.; [iii]-[iv], Title page, verso blank.; [v], Dedication to Nicolas Louis Vauquelin.; [vi], Blank.; vii-x, "Inhalt des dritten Bandes."; [1]-331, Text.; [1 pg], "Druckfehler."

[Vol 4] [i], Half title page, "Klaproths Beiträge zur chemischen Kenntniss der Mineralkörper. Viertes Band."; [ii], Publisher's list.; [iii]-[iv], Title page, verso blank.; [v], Dedication to Claude Louis Berthollet.; [vi], Blank.; vii-xii,

"Inhalt des vierten Bandes."; [1]-396, Text.

[Vol 5] [i-ii], Title page, verso blank.; [iii], Dedication to Alexander von Humbolt.; [iv], Blank.; [v]-viii, "Inhalt des fünften Bandes."; [1]-264, Text.; [i]-xv, "Register über alle fünf Bände."; [1 pg], Blank.;

[Vol 6] [i-ii], [Half title page, verso blank ?? – missing from copy examined].; [iii-iv], Title page, verso blank.; [v], Second title page, "Chemische | Abhandlungen | Gemischten Inhalts, | Von | Martin Heinrich Klaproth, | [...12 lines of titles and memberships...] | [rule] | Nebst einer Kupfertafel. | [tapered rule] | Berlin und Stettin, | In der Nicolaischen Buchhandlung. | MDCCCXV."; [vi], Blank.; [vii]-viii, "Vorbericht."; [1 pg], Dedication to Siegmund Friedrich Hermbstädt.; [1 pg], Blank.; [1]-376, Text.; 377-380, "Inhalt."

VERY SCARCE. The index contained in volume 5 covers the previous volumes. Klaproth expressed doubt that the publication would continue; however, the rare sixth volume, which is not present with many copies appeared in 1815. It was issued as a supplement to the previous volumes and contains its own index. Throughout his professional life, Klaproth published a large number of chemical researches, mostly in the field of analytic chemistry. These studies were based in large measure on thorough examination of various mineral species. The laboratory techniques shown off in these studies were far in advance of their time, as is evident by the several new elements Klaproth discovered and the accuracy of the analyses, which are comparable to present standards. Periodically, Klaproth would collect his papers together, and publish them together in *Beiträge zur chemische Kenntniss der Mineralkörper*. These volumes must, therefore, be considered one of the greatest works in chemical and determinative mineralogy ever published.

REFERENCES: Dana's 7th (Bibliography): 75. • LKG: XI 21. • NUC: 298, 449. • Partington, *History of Chemistry*, 1961-70: 3, 653-56. • Sinkankas, *Gemology Bibliography*, 1993: no. 3436.

**2692. English transl., 1801-4:** Analytical Essays | Towards Promoting | the | Chemical Knowledge | of | Mineral Substances. | [tapered rule] | By Martin Henry Klaproth, | [...4 lines of titles and memberships...] | [double rule] | [-Vol. II.] | Translated From The German. | [double rule] | London: | [rule] | Printed For T. Cadell, Jun. And W. Davies, In The Strand | By G. Woodfall, No. 22, Paternoster-Row. | [rule] | 1801. [-1804.]

2 vols. [VOL 1: 1801] 8°: a<sup>8</sup> B-Z<sup>8</sup> 2A-2P<sup>8</sup>; 303ℓ.; [1]-xvi (page xiv misnumbered xvi), [1]-591, [1] errata p. [VOL 2: 1804] 8°: A<sup>4</sup> B-R<sup>8</sup> S<sup>4</sup> T<sup>2</sup>; 138ℓ.; [4], [i]-ii, [2] contents, [1]-267, [1] errata p. PAGE SIZE: 215 x 130 mm.

CONTENTS: [Vol 1] [i-ii], Title page, verso blank.; [iii], "Advertisement."; [iv], Blank.; [v]-xii, "Preface."—signed M.H. Klaproth.; [xiii]-xvi, "Contents."; [1]-315, Part I.; 316-519, Part II.; [1 pg], "Errata."—colophon, "Printed by G. Woodfall...";

[Vol 2] [2 pgs], Half title page, "Analytical Essays towards promoting the Chemical Knowledge of Mineral Substances," verso blank.; [2 pgs], Title page, verso blank.; [i]-ii, "Notice."; [2 pgs], "Contents."; [1]-267, Continuation of part II, first begun in the previous volume.; [1 pg], Errata.

VERY SCARCE. Translation by ?? Gruber from the first three volumes of *Beiträge zur chemische Kenntniss der Mineralkörper* (1795-??). Volume one represents a translation from the first volume and part of the second, while volume two continues the translation of the German edition's second volume. The second volume of this translation is almost never seen with the first; it is a very

rare book, much more difficult to find than the first volume.  
REFERENCES: Hoover Collection: no. 488. • LKG: XI 21a.

**2693. French transl., 1807:** Mémoires | de Chemie, | contenant | des analyses de minéraux, | par Martin Henri Klaproth, | [...5 lines of titles and memberships...] | Traduit de l'Allemand | Par B.M. Tassaert, Chimiste, l'un des Collaborateurs | des Annales de Chimie. | Tome Premier. [-Second.] | A Paris, | Chez F. Buisson, Libraire, rue Gîte-le-Coeur, n° 10, | ci-devant rue Haute-Feuille, nos 20 et 23. | [rule] | 1807.

2 vols. [VOL 1] 8°:  $\pi^2$  a<sup>2</sup> 1-308 316; 250 $\ell$ .; [4], [i]-iv, [1]-490, [2] p. [VOL 2] 8°:  $\pi^2$  1-308; 242 $\ell$ .; [4], [1]-476, [4] p.

CONTENTS: [Vol 1] [2 pgs], Half title page, "Mémoires | De Chemie. | T. I.", verso authentication notice, signed Buisson.; [2 pgs], Title page, verso blank.; [i]-iv, "Préface Du Traducteur."; [1]-6, "Préface de l'Auteur Allemand."; [7]-476, Text.; [477]-490, "Table des Matières contenues dans ce Volume."; [1 pg], Errata.; [1 pg], Blank.

[Vol 2] [2 pgs], Half title page, "Mémoires | De Chemie. | T. II.", verso blank.; [2 pgs], Title page, verso blank.; [1]-464, Text.; 465-476, "Table des Matières contenues dans ce deuxième Volume."; [1 pg], Errata.; [3 pgs], "Nouveautés en Vente, du fonds de François Buisson, ..."

RARE. Translation by B.M. Tassart from the first three volumes of *Beiträge zur chemischen Kenntniss der Mineralkörper* (Berlin, 1795-1802). Some of the papers had previously appeared in the *Journal des Mines* and other French journals.

REFERENCES: Bolton, *Bibliography of Chemistry*, 1893: p. 578. • Cole, *Chemical Literature*, 1988: no. 727. • NUC: 298, 449 [NK 0175660].

Chemisches Laboratorium, oder einweisung zur chemischen Analyse der Naturalien. Nebst Darstellung der nothigsten Reagentien von Johann Friedrich John. Mit einer Vorrede von M.H. Klaproth. (Berlin, 1808).

See: John, Johann Friedrich.



KLEIN

**KLEIN, Jakob Theodor.** (BORN: Königsberg, Germany?, 15 August 1685; DIED: Danzig, ??, 27 February 1759) *German palaeontologist & geologist.*

REFERENCES: ADB. • DBA: I 658, 136-155; II 712, 244-246. • DSB: 7, 401. • Hirsching, *Historisch-literarisches Handbuch*, 1794-1815. • Jöcher, *Gelehrten-Lexikon, Supplement*. • Lambrecht & Quenstedt, *Catalogus*, 1938: 237. • Meusel, *Verstorbenen Deutschen Schriftsteller*,

1802-16. • NDB: 11, 740-1 [by A. Geus]. • Poggendorff: 1, col. 1270-1. • Sarjeant, *Geologists*, 1980: 2, 1462. • WBI.

**2694. — Latin, 1731.**

Descriptiones Tubulorum Marinorum in quorum censum relati Lapides Caudae Cancrī, Gesneri and his similes. Belemnitae eorumque alveoli. Secundum dispositionem Musei Kleiniani. Addita est Dissertatio epistolaris de Pilis marinis. Gedani, Apud Knochium, 1731.

4°: [4], x, 26, [4]  $\ell$ ., 10 plates (2 folding). Plates are signed "Uhlieh sc.", "PB sc.", "C. Fritzsche sc. Hamb."

RARE. Early work of zoology and paleontology that includes a systematic study of marine fossils and recent marine specimens by the eminent zoologist Klein. The plates illustrate the author's marine specimens as well as fossils from his private collection.

Klein, a leading marine zoologist, "had many and diverse interests in natural history besides sea urchins. He developed a botanical garden in Danzig, founded and directed a naturalist's society there, made extensive collections, and published about two dozen monographs, including studies of birds, fishes, reptiles, and invertebrates other than the sea urchins, particularly the mollusks."—*DSB*.

REFERENCES: Cobres, *Deliciae Cobresianae*, 1782: p. 420 ["Eine seltene Auflage."]. • DSB: 7, p. 401. • LKG: XVII 138. • Nissen (BBI): no. 2203. • Roller & Goodman, *Catalogue*, 1976: 2, p. 44.

**2695. 2nd edition, 1773:** Iac. Theod. Klein | [...3 lines of titles and memberships...] | Descriptiones | Tvbylvorum | Marinorum | In Quorum Censum Relati | Lapides Caudae Cancrī Gesneri | Et His Similes | Belemnitae | Eorumque | Alveoli | Secundum Dispositionem | Musei Kleiniani | Addita Est | Dissertatio Epistolaris | De | Piliis Marinis | [rule] | Cum Decem Tabulis Aeneis | [double rule] | Gedani et Lipsiae | In Officina Libraria Gleditschiana | C1731CCLXXIII.

4°: A-E<sup>4</sup> F<sup>2</sup>; 22 $\ell$ .; [1]-40, [4] p., 10 plates.

CONTENTS: [1-2], Title page, verso blank.; [3-6], Dedication to Hans Sloane, dated 15 March 1731.; [7-15], "Prolegomena."; 16-40, Text (= "...Tvbyli Marini..."); [3 pgs], "Conspectus | Dispositionis | Echinorum Marinorum | Musei Kleiniani."; [1 pg], List of Klein's writings.; [At end], 10 plates.

RARE. Second edition, enlarged after the first appearance of 1731. The present work is important for its classification, based entirely on external characteristics.

REFERENCES: LKG: XVII 138.

**2696. — Latin, 1758 [Part 1].**

Iacobi Theodori Klein | [...5 lines of titles and memberships...] | Lvcvbrativncvla Svbtterranea | Prior | De | Lapidibvs Macrocosmi | Proprie Talibvs. | [ornate rule] | 1757. | Cicero pro lucullo: | Bt pulcherrimum est vera videre, sic pro veris | salsa probare turpissimum. | [ornate rule] | Petropoli | Typis Academiae Scientiarum | 1758.

4°: [1]-38 p., diagrams. An early study on the classification of minerals and stones based upon their external characteristics. VERY RARE.

REFERENCES: BL: [B.354.(1.)]. • Cobres, *Deliciae Cobresianae*, 1782: 2, 687. • Dryander, *Catalogus Banks*,

## KLEIN

1796-1800: 4, p. 9. • LKG: XII 52. • Schröter's *Journal für die Liebhaber*: 2, 105.

### 2697. — Latin, 1760 [Part 2].

Iacobi Theodori Kleinii | Vltior Lvcvbratio  
| Svbtterranea | De | Terris | Et |  
Mineralibvs. | Accedit | Eivsdem Lvcvbratio  
Posterior Svbtterranea | De Lapidibvs Idiomorphis  
| Cvm Perpetvis Commentariis. | [rule] | Persivs |  
Qui prior es, eur me in decursu Lampada poscis?  
| [ornate rule] | Petropoli | Typis Academiae  
Scientiarum | c1810cc LX.

4°: [1]-56 p. An early study on the classification of earths and minerals, based upon their external characteristics. VERY RARE.

REFERENCES: BL: [B.354.(2.) & 33.b.18.(2.)]. • Cobres, *Deliciae Cobresianae*, 1782: 2, 687. • LKG: XII 53. • Schröter's *Journal für die Liebhaber*: 2, 106.

2698. French transl., 1754: Ordre Naturel | Des Oursins De Mer | Et Fossiles, | Avec | Des Observations Sur Les Piquans | Des Oursins De Mer. | Et Quelques Remarques | Sur Les Bélemnites. | Par M. Theodore Klein, Secrétaire de la Ville | [...2 lines of titles and memberships...] | Avec Figures, | Augmentées de six Planches d'Oursins, qui sont dans le Cabinet de | M. de Reaumur, de l'Académie Royale des Sciences. | Ouvrage traduit du Latin, avec le Texte de l'Auteur. | [ornament] | A Paris, | Chez Cl.J.B. Bauche, Libraire, à Sainte Geneviève, | & à S. Jean dans le défert. | [double rule] | M. DCC. LIV. | Avec Approbation Et Privilege Du Roi.

8°: [4], 232, [2] p., engraved frontispiece (portrait of the author), 28 plates.

PLATES: The frontispiece shows a fine portrait of Klein aged 59. He is standing in front of library shelves with the wording below: "Jacobus Theodorus Klein | Secr. Civ. Gedan. Soc. Reg. Lond. | Et Acad. Scient. Bonon. Sodalit. Aet. LIX. The portrait is signed "Maironneuve Sculps. 1764."

SCARCE. Translation into French and Latin by M. de Reaumur from *Naturalis Disposition Echinodermatum* (Gedani, 1734). An important study on a classification system for many species of sea urchins based upon the structure of their spiny skeletons, including both living and fossil examples. One of the illustrations depicts the Sea-Angel from Reaumur's personal collection. Although, clearly not a mineralogical work, Gatterer and LKG both list this title in their bibliographies.

REFERENCES: Gatterer, *Mineralogischen Literatur*, 1798-9: 2, 355. • LKG: XVII 140b. • Nissen (ZBI): no. 2206 [error in plate count].

### 2699. — Latin & German, 1770.

Specimen Descriptionis Petrefactorum Gedanensium cum syllabo tabularum. Probe einer Beschreibung und Abbildung der in der Danziger und umliegenden Gegend befindlichen Versteinerungen. Nürnberg, Zu finden bey denen Seeligmännischen Erten, 1770.

4°: [10], [14], 1 p., 24 colored plates.

RARE. Paleontology; Topographical – Germany, Danzig. Half-title reads: Specimen Oryctographiae Gedanensis.

REFERENCES: LKG: XIV 723.

**KLEIN, Johann Friedrich Carl.** (BORN: Hanau, Germany, 15 September 1842; DIED: Berlin, Germany, 23 June 1907) *German mineralogist*.

Klein was an eminent mineralogist, primarily concerned with the optical properties of minerals under the microscope. He also developed important polarization microscope techniques, as well as some work on meteorites.

REFERENCES: *Centralblatt für Mineralogie*: Jg. 1907, 641-661, portrait. • Freund & Berg, *Geschichte der Mikroskopie*, 1966: 3, 235-9, portrait. • Poggendorff: 3, 742, 4, 755-6 & 5, 635. • *Proceedings of the Geological Society, London*: 1907-1908, p. lviii-lix. • Sarjeant, *Geologists*, 1980: 2, 1462.

### 2700. — German, 1876.

Einleitung | in die | Krystallberechnung | von | Carl Klein. | [wavy rule] | Mit 196 Holzschnitten und zwölf Tafeln. | [ornate rule] | Stuttgart. | E. Schweizerbart'sche Verlagshandlung (E. Koch). | 1876.

8°: [i]-vi, [1]-393, [1] errata p., 196 illus., 12 folding plates.

CONTENTS: [i-ii], Title page, verso printer notice; [iii]-iv, "Vorwort"; [v]-vi, "Inhalt"; [1]-72, "Allgemeine Theil"; [73]-393, "Specieller Theil"; [1 pg], "Berichtigungen"; [At end], Plates.

SCARCE. Based upon comments in the *American Journal of Science* reviews, this single volume was distributed in two parts. The first consisted of pages 1-208 appeared in 1875, while the second incorporating pages 209-393 appeared in 1876.

EDWARD S. DANAREVIEWING the work wrote Klein "develops the subject of Crystallography from the standpoint of Quenstedt, according to whom the relations of the planes of a crystal are shown by the lines in which they are projected upon a given plane of projection. He does not confine himself to the somewhat unwieldy formulas of Quenstedt, however, but makes all calculations of axial relations and parameters by means of spherical triangles in the manner employed by von Kobell. The author has worked out with much care and completeness the solutions of the various problems which arise, and accompanies each with an example performed in full, so the student cannot fail to comprehend the method." Reviewing the second part, Dana continues, "The present part includes a detailed description of the methods of calculation applicable to the monoclinic, triclinic, and hexagonal systems, the whole being characterized by the same clearness and thoroughness to which attention was before called. A chapter upon the drawing of crystals forms the conclusion of the work."

REFERENCES: *American Journal of Science*: 3rd Series, 11 (1876), 68 & 413.

### 2701. — German, 1906.

Studien über Meteoriten, vorgenommen auf Grund des Materials der Sammlung der Universität Berlin. Von ... C. Klein. Berlin, 1906.

4°: 141 p., 3 plates.

VERY SCARCE. Published as *Königlich Preussische Akademie der Wissenschaften. Physikalische*

*Abhandlungen*, no. 1.

REFERENCES: BMC: 6, 84.

**KLINCHAMERUS, Christainus.**

**2702. — Latin, 1662** [Dissertation].

... De Natura Mineralium Exercitationes Quinque.

Praes. J.T. Schenkio. ... Jenæ, S. Krebs, 1662.

4°: [28] p.

VERY SCARCE. Dissertation – Jena (Johann Theodor Schenck [q.v.] præses).

REFERENCES: BL: [1185.d.3.(14.)]. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 24. • LKG: III 53 & XVI 88 & 89. • NUC: 525, 45-7 [NS 0197181].

**KLINGENSTIERNA, Samuel.**

REFERENCES: Poggendorff: 1, cols. 1272-3.

**2703. — Latin, 1763** [Dissertation].

Praes. specim. acad. exhibens momenta nonnulla circa ortum fossilium solidorum. Respondent Joannes Ekman. Upsala, 1736.

4°: 28 p.

VERY RARE. Dissertation – Joannes Ekman, respondent.

REFERENCES: LKG: XIII 57.

**KLINGHAMMER, Christian.**

**2704. — German, 1763.**

Versuch vom Daseyn des Eisens im Karlsbader Brudelsteine, in eine Sendschreiben an dem Herrn Gottlob Karl Springsfeld ... [Christian Klinghammer] ... Dresden, 1763.

8°: [16] p.

VERY RARE. An early description of the famous Brudelsteine found in the area of Karlsbade in Germany. This is a highly banded onyx that has been used for centuries as an ornamental stone.

REFERENCES: LKG: XVI 299.

**KLIPSTEIN, Philipp Engel.**

REFERENCES: Poggendorff: 1, col. 1275.

**2705. — German, 1790.**

Versuch einer mineralogischen Beschreibung des Vogelsgebirgs in der Landgrafschaft Hessen–Darmstadt. Berlin, F. Nicolai, 1790.

8°: 96 p.

RARE. This is an account of the Vogelsberg mountain range, an area of large volcanic masses with much faulting, located beyond the eastern rim of the Rhine basin.

REFERENCES: LKG: XIV 284.

**2706. — German, 1779-84.**

Mineralogischer Briefwechsel und andere Aufsätze für Freunde der Bergwerckswissenschaften. Giessen, 1779-84.

2 vols. 8°.

RARE. NIF

REFERENCES: LKG: VI 71 & 72a.



KLOCKMANN

**KLOCKMANN, Friedrich Ferdinand Hermann.**

(BORN: Schwerin, Germany, 12 April 1858; DIED: Aachen, Germany, 17 November 1937) *German mineralogist.*

In 1881 Klockmann graduated from the University of Rostock with a doctorate in mineralogy. In 1887 he became a professor of mineralogy and geology at the Mining Academin in Clausthal, but took a position in 1899 as professor of mineralogy and petrology at the Technical Highschool in Aachen where he spent the remainder of his career, becoming emeritus professor in 1923.

REFERENCES: *Mineralogical Magazine*: 25 (1939), 295 [by L.J. Spencer]. • Poggendorff: 4, 761-2, 5, 640, 6, 1335 & 7a, 787. • Sarjeant, *Geologists*, 1980: 2, 1464.

**2707. — German, 1892** [First edition].

Lehrbuch der Mineralogie für Studierende und zum Selbstunterricht bearbeitet von F. Klockmann. Stuttgart, Verlag von Ferdinand Enke, 1892.

8°: xii, 467, [1] p., 430 illus.

VERY SCARCE. This is the first appearance of a popular series of textbooks of mineralogy that would continue to be revised and expanded through other editors and authors to the present day, becoming known simply as *Klockmann's Lehrbuch*. The basic themes of the science typical of all great textbooks are covered, including crystallography, the physics of minerals and chemical properties. The second part is a descriptive mineralogy. The work became widely used in the German education system.

REFERENCES: *Neues Jahrbuch für Mineralogie, Geologie und Paläontologie*: 1891, II, p. 226 & 1893, I, p. 223. • NUC. • *USGS Library Catalog*. • *Zeitschrift für praktische Geologie*: 1893, p. 235-236.

**2708. 2nd edition, 1900:** Lehrbuch der Mineralogie für Studierende und zum Selbstunterricht. Zweite umgearbeitete Auflage. Stuttgart, Ferdinand Enke 1900.

8°: xiv, 672 p., 498 illus. SCARCE.

REFERENCES: *Neues Jahrbuch für Mineralogie, Geologie und Paläontologie*: 1900, p. ?? • NUC.

**2709. 3rd edition, 1903:** Lehrbuch der Mineralogie. Dritte, verbesserte und vermehrte Auflage. Stuttgart, Ferdinand Enke, 1903.

8°: xii, 588, 41 p., 522 illus. SCARCE.

## KNEIFL

REFERENCES: NUC.

**2710. 4th edition, 1907:** Lehrbuch der Mineralogie. 4., verbesserte und vermehrte Auflage. Stuttgart, F. Enke, 1907.

8°: xii, 622 p., 553 illus. With a *Tabellarische Übersicht über die 250 wichtigsten Mineralien*, 41, [4] p. SCARCE.

REFERENCES: NUC.

**2711. 5th edition, 1912:** Lehrbuch der Mineralogie. Stuttgart, F. Enke Verlag, 1912.

8°: 628 p., 562 illus., and a *Bestimmungstabelle über die 250 wichtigsten Mineralien*. SCARCE.

REFERENCES: NUC.

**2712. 7th edition, 1922:** Lehrbuch der Mineralogie. Mit 580 Textabbildungen und 2 Anhängen. 1. Tabellarische Übersicht über die wichtigsten Mineralien (Bestimmungstabellen); 2. Übersicht über die nutzbaren Mineralien. Stuttgart, Enke, 1922.

8°: xii, [2], 667 p., plus supplement. SCARCE.

REFERENCES: NUC.

### Ramdohr's Stewardship

After Klockmann's death, Paul Ramdohr took over the authorship of the what was then called *Klockmann's Lehrbuch der Mineralogie*.

**2713. 11th edition, 1936:** Lehrbuch der Mineralogie. Neu herausgegeben von Paul Ramdohr. Elfte vollst. umgearbeitet Auflage. Stuttgart, 1936.

8°: xii, 625 p., 613 illus. SCARCE.

**Paul Ramdohr.** (BORN: 1 January 1890; DIED: 8 March 1985) *German mineralogist & geologist*. Ramdohr was a talented mineralogist, igneous and metamorphic petrologist and economic geologist. He taught at the University of Heidelberg, and specialized in studies of ore minerals and their development.

REFERENCES: NUC. (**Ramdohr**) *American Mineralogist*: 71 (1986), 839-40 [by W. Schreyer]. • Sarjeant, *Geologists*, 1980: 3, 1943-4.

**2714. 12th edition, 1942:** Lehrbuch der Mineralogie. Neu herausgegeben von Paul Ramdohr. 12., vollständig umgearb. Auflage. Stuttgart, Enke, 1942

8°: xii, 659 p., 606 illus. SCARCE.

REFERENCES: NUC.

**2715. 13th edition, 1948:** Klockmanns Lehrbuch der Mineralogie neu herausgegeben von Paul Ramdohr. 13. durchgesehene auflage. Stuttgart, Ferdinand Enke, 1948.

8°: xii, 674 p., illus., charts (1 folded). Chart folded at back of book. Includes index.

SCARCE. Edited by Paul Ramdohr [1890- ].

REFERENCES: NUC.

**KLÜGEL, Georg Simon.** (BORN: Hamburg, Germany, 19 August 1739; DIED: Halle, Germany, 4 August 1812) *German mathematician*.

REFERENCES: ADB. • DBA: I 666, 317-359; II 719, 413-416. • DSB. • Hamberger & Meusel, *Gelehrte Teutschland*, 1796-1834. • Jöcher, *Gelehrten-Lexikon, Supplement*. • NDB: 12, 135-6 [by E. Knobloch]. • Poggendorff: 1, cols. 1277-8. • WBI.

**2716. — German, 1782** [First edition].

Die Naturgeschichte der Pflanzen, der Thiere und der Menschen, nebst den Aufangegrunden der Mathematik und Naturlehre in Verbindung mit Chemie und Mineralogie. Berlin, 1782.

8°: Apparently a study of chemistry and mineralogy and their connection with mathematics and natural philosophy. Published as part of the *Der*



KLÜGEL

*Encyclopädie der gemeinnütz. Kenntniss* (2 parts, 1782). RARE.

REFERENCES: Engelmann, *Bibliotheca Historico-Naturalis*, 1846: p. 98. • LKG: XII 172.

**2717. 2nd edition, 1792-4:** Anfangsgründe | der | Naturlehre, | in Verbindung | mit der | Chemie und Mineralogie. | Von | Georg Simon Klügel, | [...3 lines of titles and memberships...] | [rule] | [ornate rule] | Berlin und Stettin, | bey Friedrich Nicolai. | 1792.

[SERIES TITLE PAGE:]

Encyclopädie, oder zusammenhängender Vortrag der gemeinnützigsten, insbesondere aus der Betrachtung der Natur und des Menschen gesammelten Kenntnisse. Zweite, umgearbeitet und vermehrt Ausgabe. Berlin, F. Nicolai, 1792-4.

8°: An encyclopedia describing aspects of science and natural history. Theil two, which contains the section concerned with mineralogy is the only volume described. VERY SCARCE.

REFERENCES: BL. • LKG: XII 172. • NUC: 299, 560 [NK 0193117].

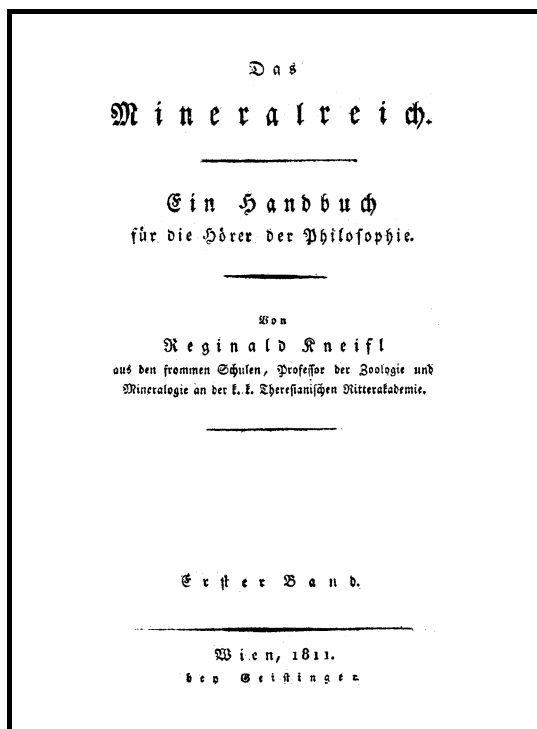
**KNEIFL (Kneifel), Reginald.** (BORN: Nieder-Lindewiese, Freywaldau, Austria, 11 January 1761; DIED: Vienna, Austria, 7 December 1826) *Austrian theologian & mineralogist*.

From 1804 to 1807, Kneifl was the Praefect at the College in Auspitz in Mahren (Czech?). Then in 1808 he accepted an appointment as professor of mineralogy and zoology at the Theresian Academy in Vienna.

REFERENCES: DBA: I 669, 360-366; II 722, 93-94. • Hamberger & Meusel, *Gelehrte Teutschland*, 1796-1834. • Jöcher, *Gelehrten-Lexikon, Supplement*. • *Neue Nekrolog der Deutschen*. • *Österreich Biographisches Lexikon*. • Poggendorff: 1, col. 1279. • WBI. • Wurzbach, *Biographisches Lexikon Österreich*, 1856-91.

**2718. — German, 1811-2.**

Das | Mineralreich. | [rule] | Ein Handbuch | für die Hörer der Philosophie. | [tapered rule] | Von | Reginald Kneifl | aus den frommen Schulen, Professor der Zoologie und | Mineralogie and der k.k. Theresianischen Ritterakademie. | [rule] | Erster [-Zweiter] Band. | [tapered rule] | Wein, 1811. | Bey Geistinger.



DAS MINERALREICH, 1811

2 vols. [VOL 1: 1811] 8°:  $\pi^2$  A-Y<sup>8</sup> Z<sup>6</sup> (Z missigned Y); 183 $\ell$ .; [i]-iv, [1]-362 p.; [VOL 2: 1812] 8°:  $\pi^1$  A-U<sup>8</sup> X<sup>4</sup>; 165 $\ell$ .; [2], [1]-328 p. PAGE SIZE: 195 x 115 mm.

CONTENTS: [Vol 1] [i-ii], Title page, verso blank.; [iii]-iv, "Vorerinnerung.;" [1]-2, "Einleitung.;" [3], "I. Theil. | [ornate rule] | Oryktognosie.;" [4], Blank.; [5]-352, Text.; [353]-362, "Alphabetisches Verzeichniß."

[Vol 2] [2 pgs], Title page, verso blank.; [1]-268, Text, part I continued.; [269], "Zweyter Theil. | [ornate rule] | Geognosie.;" [270], Blank.; [271]-304, Text.; [305]-318, "Anhang | zur Minerlogie: | Fossilien.;" [319]-327, "Alphabetischen Verzeichniß | einiger in dieses Fach einschlagender Werke."

SCARCE. A textbook of mineralogy and geognosy. The first part describes mineralogy from the standpoint of their physical properties. The second portion describes geology. A contemporary review suggests that "one becomes entertained from this well-known publication, which does not contain the critical circumspection usually found in works of this period."

REFERENCES: Leonard's *Taschenbuch*: 7 (1812), 547. • LKG: XII 190.

**KNOBLOCH, Tobias.** (BORN: 1596; DIED: 1641) *German physician.*

REFERENCES: DBA: I 671, 408-409. • Hirsch, *Biographisches Lexikon*, 1884-8: ?? • Jöcher, *Gelehrten-Lexikon*, 1750-51. • WBI.

**2719. — Latin, 1604** [Dissertation].

[Contained within an elaborate box:] Disputationum Physicarum. | Decima tertia, | De | Fossilibvs | Quam | D.O.M.A. | Sub Præsidio | Clariss.

excellentissimiq, viri, | Dn. Tobiaë Knoblochii, | Medic. & Philosoph. D. | In illustri Witeberensium Academia dis- | cutiendam propnit. | Jacobus Hornlinus, | Birutinus Francus. | Ad diem 7. Augusti | [ornament] | Witebergæ, | Typis M. Georgii Muller, | [rule] | Anno M. D. CIV.

4°: A<sup>4</sup> B<sup>2</sup>; 6 $\ell$ .; [12] p.

CONTENTS: [1 pg], Title page.; [1 pg], Dedication.; [10 pgs], Text.

RARE. Dissertation presented at the University of Wittenberg by Jacob Hornlinus on August 7, 1604. It describes figured stones and speculates on their origin.

REFERENCES: VD17: 39:139298P.

**2720. — Latin, 1607** [Dissertation].

[Contained within an elaborate box:] Disputationum Physicarum XX. | De | Lapidibus. | Quam | Aspirante divini Numinisgratii | SVB Præsidio | Clarissimi Viri | Dn. | Tobiaë Knoblochii, | Med. & Philosoph. D. | In celeberrimæ Witebergensium Academiae | diseutiendam proponit | Leonhartus Thirius Sultz- | bacensis Palatinus. | Ad diem 15. April. horé, locoq, consuetis. | Vvitebergæ, | Typis Cratonianis per Iohan. Gorman. | [rule] | Anno c151cCVII.

4°: A-B<sup>4</sup>; 8 $\ell$ .; [16] p.

CONTENTS: [1 pg], Title page.; [1 pg], Dedication.; [14 pgs], Text.

RARE. Dissertation presented at the University of Wittenberg by Leonhard Thirius on April 15, 1607. It describes the value of stone in medical preparations.

REFERENCES: VD17: 12:175788E.

**KNOP, Adolf.** (BORN: Altenau am Harz, Germany, 12 January 1828; DIED: Karlsruhe, Austria, 27 December 1893) *German stratigrapher, mineralogist & chemist.*

Knop graduated from Justus-Liebig University, Giessen, where he was professor of mineralogy and geognosy from 1857. In 1866, he was appointed a professor of mineralogy at Friderician University, Karlsruhe. In 1878, he was appointed director of the University's mineral collection.

REFERENCES: Brauns, R., "Entwicklung des mineralogischen Unterrichts an der Universität Giessen," in: *Akademische Festrede zur Feier des Jahresfestes der Grossherzoglich Hessischen Ludwigs Universität am 1. Juli 1904*. Giessen, 1904 [p. 23-4 & 31]. • DBA: I 672, 388-390; II 724, 436-441, 457. • *Hessische Biographien*: 2, 477-8. • Kluth, C., "Adolph Knop (1828-1893)," *Beiträge naturk. Forsch. Südwestdeutschland*, 31 (1973), 171-7. • Poggendorff: 1, cols. 1283-4, 3, 730 & 4, 767. • Sarjeant, *Geologists*, Suppl. 1, 1986: 1, 555. • WBI.

**2721. — German, 1867.**

Molekularconstitution | Und | Wachsthum der Krystalle. | Von | Dr. Adolf Knop, | Professor Am Polytechnicum Zu Carlsruhe. | [rule] | Leipzig, | Verlag von H. Haessel. | 1867.

8°: [i]-viii, [2], [1]-96 p., illus.

CONTENTS: [i-ii], Title page, verso "Leipzig, | Druck von Giesecke & Devrient.;" [iii]-viii, "Vorwort."—dated 12 January 1867.; [1 pg], "Inhalt.;" [1 pg], Blank.; [1], Sectional title page.; [2], Blank.; [3]-96, Text.



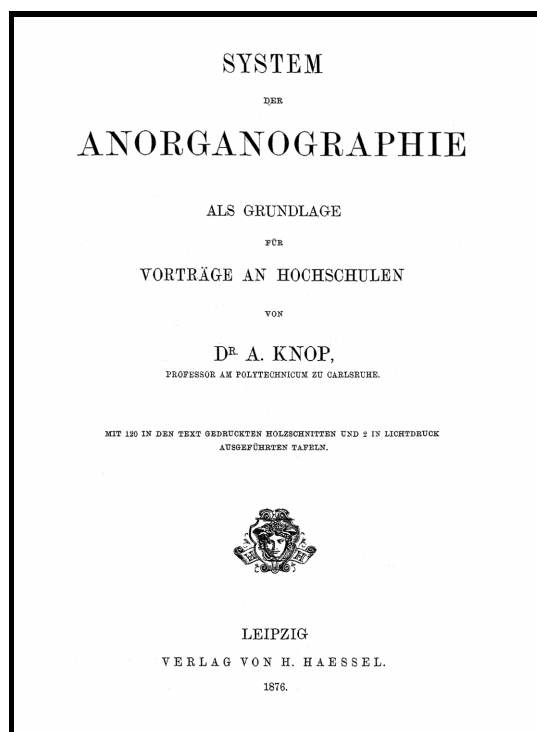
## KNORN

**RARE.** A work describing the theoretical arrangement of atoms with in a crystal. It is divided into two major parts. The first gives a long historical description of previous views of atomic structure covering the ideas of Bergman, Häuy, Dana, Bravais, and Frankenheim. The second section presents Knop's ideas on atomic arrangement.

**Contents:** Erster Theil. Molekularconstitution der Krystalle (p. 1-42). 1. Bergmann's und Häuy's geometrische Vorstellungen über den inneren Bau der Krystalle. 2. Dana's mechanische Vorstellungen über die Constitution der Krystalle. 3. Bravais-Frankenheim's geometrische Auffassung. 4. Chr. Wieners mechanische Auffassung der Molekularconstitution krystallinischer Körper. 5. Anordnung der Atome in den verschiedenen Krystallsystemen.

Zweiter Theil. Wachstum der Krystal (p. 43-96). 1. Bezeichnung der Krystallaxen. 2. Krystallisationsversuche mit Chlorkalium. 3. Krystallisationsversuche mit Salmiak. 4. Bedeutung der Krystallaxen. 5. Veränderlichkeit der Wachstumsrichtungen derselben Substanz unter veränderten Bedingungen. 6. Vvorkommen discontinuirlicher Wachstumsformen an anderen, künstlich und natürlich krystallisierten Substanzen. 7. Mischungen von Chlorkalium und Chlorammonium. Bedingte Isomorphie beider Körper. 8. Zusammenhang zwischen Wachstumsrichtungen und Spaltbarkeit. 9. Beziehungen zwischen Wachstumsrichtungen und Zwillingsbildung. Schlussbemerkungen.

REFERENCES: NUC.



SYSTEM, 1876

### 2722. — German, 1876.

System | Der | Anorganographie | Als Grundlage  
| Für | Vorträge An Hochschulen | Von |

Dr. A. Knop, | Professor Am Polytechnicum Zu Carlsruhe. | Mit 120 In Den Text Gedruckten Holzschnitten Und 2 In Lichtdruck | Ausgeführten Tafeln. | [ornament] | Leipzig | Verlag Von H. Haessel. | 1876.

8°: xxviii, 296 p., 2 plates, 120 illus.

**RARE.** By the late nineteenth century, chemistry and mineralogy were considered two distinct studies, although earlier in their history they were considered one and the same. Mineralogy had developed into a study of the materials, characteristics, properties and chemistry of various objects that naturally form part of the earth's crust. Using this image, Knop did not think minerals belonged to a special class of materials, but should in fact be treated as objects of general inorganic chemistry. He therefore called his mineralogy "Anorganographie" and wrote a textbook on the subject that he titled, *System the Anorganographie* (Leipzig, 1876). In this work, he gives a classification of minerals together with all the chemical elements known at the time, as well as some naturally occurring organic compounds. Although this volume does propose a mineral system based on chemistry, it is so mixed with the other materials Knop includes as to be almost unrecognizable.

REFERENCES: Dana's 7th (Bibliography): 75. • NUC. • Poggendorff: 1, cols. 1283-4, 3, 730 & 4, 767. • Sarjeant, *Geologists*, Suppl. 1, 1986: 1, 555.

## KNORN, Henricus Hardovicus.

### 2723. — Latin, 1680.

Dissertatio historica de metallifodinarum Hartzi-carum prima origine et progressu et quomodo ... auctor Henricus Hardovicus Knorn ... Helmstadii, Typis Henrici Davidis Mülleri, [1680].

4°: [72] p.

**RARE.** History of mining in the Harz Mountains from ancient and medieval times.

**Reissue, 1704:** Helmstadt, 1704.

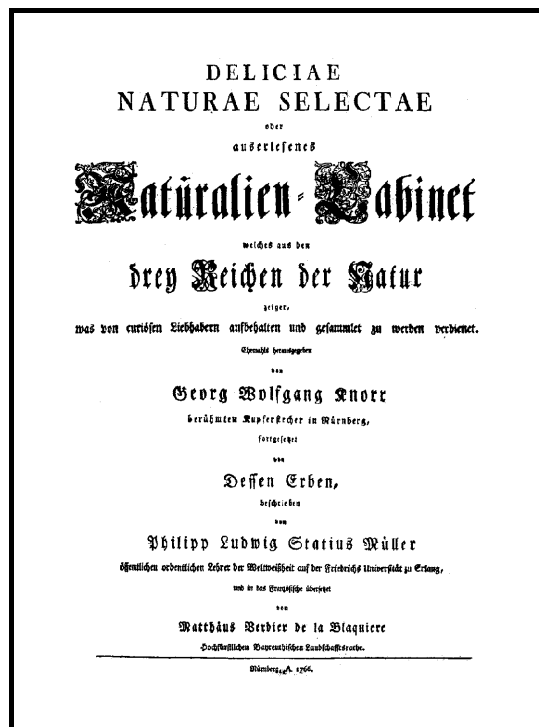
REFERENCES: LKG: XIV 154.

**KNORR, Georg Wolfgang.** (BORN: Nuremburg, Germany, 30 December 1705; DIED: Nuremburg, Germany, 17 September 1761) *German artist, engraver, paleontologist & naturalist.*

Knorr was a palaeontologist, painter, engraver and art dealer in the scientific center of Nuremburg. He made exceptional engraved portraits, landscapes and animal studies after Dürer that are today valued for their accuracy. Knorr is considered a protogeologist intermediate between collectors of natural history objects and those who first used fossils for identification and mapping of stratigraphic succession. But his renown is for the detailed and accurate scientific copper plates he created and used to illustrate the many works on natural history and paleontology authored by himself and others.

REFERENCES: ADB: 16, 326-7. • *Bryan's Dictionary of Painters*, 1903-4. • *Biographie Universelle*. • Cleevely, *World Palaeontological Collections*, 1983: 173-4. • DBA: I 673, 80-100; II 725, 94-98. • Drugulin, *Sechstausend Portraits*, 1863: no. 2968. • DSB: 7, 411-3. • Eisinger, W., "Georg Wolfgang Knorr," *Entomologische Zeitschrift*, 43 (1930), no. 20, 241-5. • Gaehtgens, *Deutsche Zeichnungen*, 1987: p.

92-3. • Hirsching, *Historisch-literarisches Handbuch*, 1794-1815: 3, 312-6. • Jöcher, *Gelehrten-Lexikon, Supplement*: 3, 576-7. • Lambrecht & Quenstedt, *Catalogus*, 1938: 238. • Lipowsky, *Baierisches Künstler-Lexicon*, 1810: 1, 154-5. • Ludwig, *Nürnbergers Naturgeschichtliche Malerei*, 1998: p. 346-8, portrait. • Meusel, *Verstorbenen Teutschen Schriftsteller*, 1802-16. • Nagler, *Neues allgemeines Künstler-Lexikon*, 1835-52: 7, 87-8. • Poggendorff: 1, col. 1284. • Singer, *Allgemeiner Bildniskatalog*, 1930-8: no. 48357. • Thieme & Becker, *Allgemeines Lexikon*, 1907-50: 21, 30-1. • WBI. • Will, *Nürnbergisches Gelehrten-Lexicon*, 1755-1808.



DELICIAE NATURAE SELECTAE, 1754-66

**2724. — German & French, 1754-66** [First edition]. [Engraved German title page:] Deliciae Naturae | Selectae | [ornate rule] | oder | auserlesenes | Naturalien Cabinet | welches | aus den | drey Reichen der Natur, | zeigt | was von | Curiosen Liebhabern | aufbehalten | und gesammelt zu werden verdienet. | Herausgegeben von | Georg Wolfgang Knorr | Nürnberg. | [ornate rule] | [vignette].

[FRENCH TITLE PAGE READS:]

Delices | Physiques Choiesies, | Ou | Choix | De Tout Ce Que | Les Trois Règnes De La Nature | Renferment | De Plus Digne Des Recherches D'un Amateur Curieux | Pour En Former | Un | Cabinet Choisi | De | Curiositez Naturelles, | Ouvrage Communique Cy-Devant Au Public | Par | George Wolfgang Knorr | Celebre Artiste

De Nuremberg | Continue Par | Ses Heritiers | Avec Les Descriptions Et Remarques | De | Philippe Louis Stace Müller | Professeur Public-Ordinaire En Philosophie A L'Université D'Erlang | Et Traduit En François | Par | Mathieu Verdier De La Blaquiere, | Conseiller A La Chambre Provinciale De Bayreuth. | [rule] | A | Nuremberg, | MDCCLXVI.

[TITLE PAGE OF PART TWO READS:]

Deliciae | Naturae Selectae | oder | auserlesenes | Naturalien=Cabinet | welches aus den | drey Reichen der Natur | zeiger, | was von curiosen Liebhabern aufbehalten und gesammelt zu werden verdienet. | Ehrmahls herausgegeben | von | Georg Wolfgang Knorr | berühmten Kupfrestecher in Nürnberg, | fortgetzet | von | Dessen Erben, | beschrieben | von | Philipp Ludwig Stätius Müller | öffentlichen ordentlichen Lehrer der Weltweisheit auf der Friedrichs Universität zu Erlang, | un in das Französische übersetzt | von | Matthäus Verdier de la Blaquiere | Hochfürstlichen Bayrenthischen Landschaftsrathe. | [rule] | Nürnberg, A. 1766.

2 parts. [Part 1: 1754] 2°: [26], [i]-viii, [1]-132 p., 38 hand-colored plates. Additional engraved title page dated 1754. [Part 2: 1766] 2°: [4], [i]-xix, [1], [1]-144 p., colored frontispiece, 53 colored plates (one folding). PAGE SIZE: 505 x 355 mm.

PLATES: [Part I] 15 plates of coral numbered A, AI-AXIV. 7 plates of shells numbered B, BI-BVI. 6 plates of butterflies numbered C, CI-CV. 4 plates of sea-apples numbered D, DI-DIII. 6 plates of minerals and metals numbered E, EI-EV.

[Part II] 7 plates of lobsters and insects numbered F, FI-FVI. 4 plates of mollusca numbered G, GI-GIII. 9 plates of fishes numbered H, HI-HVIII. 7 plates of birds numbered I, I-VI. 14 plates of mammals numbered K, KI-KXIII. 12 plates of reptiles numbered L, LI-LXI.

**RARE.** First appearance of this magnificently illustrated and popular natural history book. The work's purpose was to accurately describe and show the contents of a typical private museum or 'Wunderkammer' of the time. A descriptive text in German was prepared by Philipp Ludwig Stätius Müller [see note below] and it describes each rendered specimen, including anecdotes and interesting observations but little true science. A long list of citations to naturalists of the 16th to 18th centuries is given in the preliminaries, including Linnaeus' *Systema Naturae*, which is not followed. To appeal the book to a wider market, Knorr incorporated a French translation of the text by Mathieu Verdier de La Blaquiere [?-1769] into parallel columns within the book. However, the lasting value and desirability of the book are the 91 truly magnificent folio size hand-colored engraved plates showing a wide variety of specimens, including corals, shells, butterflies, minerals, metals, spiders, fish, birds, animals and reptiles. These plates prepared under Knorr's supervision are among his finest productions at

# KNORR

a time when Knorr was perhaps the leading publisher of such plates. Often it is said that the beauty of these illustrations exceeds that of the models, which is why copies of this work are frequently broken.

This is true of the six mineralogical plates that are among the best representations of hand-colored mineral illustrations ever produced. A total of about seventy specimens are rendered, including a fine azurite, whose intense blue color is derived from the inclusion of crushed lapis lazuli in the pigment and a large hematite spike that was illustrated several times in other books over the next two centuries.

In the 18th century, Nuremberg became a leading center in the publication of finely illustrated natural history books. This was due in large part to the influence of J. Trew, a wealthy Nuremberg physician, who gathered around him leading scientists and artists. Trew's natural history cabinet and menagerie stimulated others in his circle to build their own collections, and it is from this source material that Knorr has drawn upon to illustrate the *Deliciae Naturæ Selectæ*. This is indicated on the plates by text indicating from which collection the illustrated specimens were obtained. Trew is mentioned many times but so are P.L.S. Muller, D. Schadelock and Knorr himself.

Bibliographically, the *Deliciae* was originally published in two parts. The first appeared in 1754 with 38 plates, including an additional engraved title page dated that year. In 1766, the second part containing the remaining 53 plates appeared. This has caused some bibliographers to suggest the work made two separate appearances, 1754 and 1766. However, this is not the case.

**Philippus Ludovicus Statius Muller.** (BORN: Leeuwarden, The Netherlands, 25 April 1725; DIED: Erlangen, Germany, 5 January 1776) *Dutch theologian & naturalist*. Statius Muller was a Lutheran clergyman at Amersfoort (1745-1749) and at Leeuwarden until 1756. He then accepted a position as professor of natural history at the University of Erlangen. He possessed a natural history cabinet containing many animals, some of which were depicted in Knorr's *Deliciae Naturæ Selectæ*, which Statius Muller translated into Dutch.

REFERENCES: BL: [457.g.6.7. & 44.k.1.]. • Darmstädter, *Steinbücher*, 1934: p. 272. • Ludwig, *Nürnbergers Naturgeschichtliche Malerei*, 1998: p. 172-4. • Murray, *Museums*, 1904: p. 310. • Nissen (ZBI): no. 2227. • NUC: 300, 517-8. • Wellcome Catalog (Books): 2, 405. (Statius Muller) Aa, *Biographisch Woordenboek*, 1852-78. • BAB: 481, 312-321 / 644, 284. • Engel, *Dutch Zoological Cabinets*, 1986: no. 1469. • Kobus, *Biographisch Woordenboek*, 1886. • Kooiman, W.J., *Philippus Ludovicus Statius Muller*. [Amsterdam,] 1950. 50 p. • NNBW: 9, cols. 701-2. • WBI.

**2725. 2nd edition, 1779:** *Delices de la Nature ou Choix de tout ce que les Trois Regnes de la Nature Renferment de plus digne des recherches d'un curieux pour en former un Cabinet; ouvrage communiqué di-devant au public par George Wolfgang Knorr ... Continue par ses héritiers avec les descriptions et remarques de Philippe Louis Statius Müller. Revu, corrigé et augmenté d'une préface par Mr. Jean Ernest Emanuel Walch. Traduit del'allemand par Jaques Frederic Isenflamm ...* Nuremberg, Chez les Héritiers de feu G.W. Knorr, 1779.

2 vols. [VOL 1] 2°: xiv, 96 p., color frontispiece by I.A. Eisenmann after I.E. Ihle, engraved portrait of Knorr

by I.A. Schweikart after Ihle. [VOL 2] 2°: xx, 108, [4] index p., 91 color plates. Text in double-column, with engraved vignette at the beginning of each volume.

RARE. Best French edition, considerably augmented and corrected from the text of the first appearance of [1754-] 1766. The text has been retranslated by Jakob Friedrich Isenflamm [see note below], and this treatment is considered the better of the two. This edition is the first to include the new preface by J.E.I. Walch, and other material. In addition to the plates of the first edition, this work has an fine engraved portrait of Knorr.

**Jakob Friedrich Isenflamm.** (BORN: Vienna, Austria, 21 September 1726; DIED: Erlangen, Germany, 23 February 1793) *Austrian physician & botanist*. Isenflamm received his M.D. from the University of Erlangen in 1749. From 1750 to 1762, he returned to Vienna, where he opened a successful medical practice. In 1762, he made a trip of scientific discovery through Holland and France, and was named in 1763 ordinary professor of medicine and anatomy at the University of Erlangen. He authored many publications, but nothing that is considered a great work. He also translated many German publications into French.

REFERENCES: Brunet: 3, 682. • Nissen (ZBI): no. 2228. • NUC: 300, 517-8. (Isenflamm) ADB: 13, 630. • Baldinger, *Biographien Ärzte*, 1768-71: 1, pt. 4, 191. • DBA: I 590, 246-324; II 638, 416. • Hirsch, *Biographisches Lexikon*, 1884-8: 3, 348. • Meusel, *Verstorbenen Deutschen Schriftsteller*, 1802-16. • WBI. • Wurzbach, *Biographisches Lexikon Österreich*, 1856-91.

**2726. Dutch transl., 1771:** *Deliciae Naturae Selectae, of Uitgeleezen Kabinet van Natuurlyke Zeldzaamheden; welke drie ryken der natuur aanbieden, om door keurige liefhebberen verzameld te worden, wel eer uitgegeven door Gerge Wolfgang Knorr, beroemd graveur en konsthandelaar te Neurenberg, en vervolgd door zyne erven; eerst in de hoogduitsche taal beschreeven, en nu in het nederduitsch overgezet en met aanmerkingen vermeerderd door Philip Ludwig Statius Müller, doctor in de philosophie, professor der natuurlyke histori, fraaye wetenschappen en duitsche litteratur [sic] alsmede opperbibliothecaris op de hooge schoole te Erlang, en medidil van de koninglyke academie der natuur-onderzoekers, enz. enz. eerste [-tweede] deel. Te Dordrecht, By Abraham Blussé en Zoon, M.DCC.LXXI.*

2 parts. [Part I] 2°: [6], [I]-XXXII, [1]-67, [1] p., 38 hand-colored plates. [Part II] 2°: [2], [I]-XX, XXXIV, [1]-70 p., 53 hand-colored plates. One hand-colored engraved additional frontispiece by R. Muys. PAGE SIZE: 355 x 550 mm.

CONTENTS: [Part I] [2 pgs], Hand-colored frontispiece, signed R. Muys, verso blank.; [2 pgs], Title page, verso blank.; [1 pg], Dedication by the publisher Blussé to Johan François van Hogendrop.; [1 pg], Blank.; [I]-XII, "Voorrede."; [XIII]-XVI, List of subscribers, listing 91 names for 99 copies, including A. Baster, W. van der Meulen, A. Vosmaer and J.C. Sepp.; [XVII]-XXXII, "Alphabetische Lyst der Auteurs" [=List of authors mentioned]; [67 pgs], Text.; [1 pg], Blank.; [At end], 38 hand-colored plates.

[Part II] [2 pgs], Title page, verso blank.; [I]-XX, XXV-XXXIV, "Voorrede."—dated 10 February 1770.; [70 pgs], Text.; [At end], 53 hand-colored plates.

PLATES: [Part I] Hand-colored frontispiece, signed R. Muys. 15 plates of coral numbered A, AI-AXIV. 7 plates of shells numbered B, BI-BVI. 6 plates of butterflies numbered C, CI-CV. 4 plates of sea-apples numbered D, DI-DIII. 6 plates of minerals and metals numbered E, EI-EV.

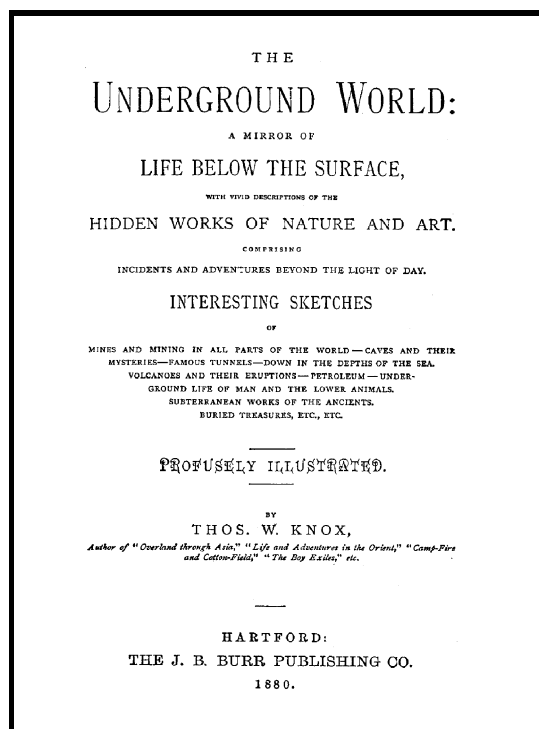
[Part II] 7 plates of lobsters and insects numbered F, FI-FVI. 4 plates of mollusca numbered G, GI-GIII. 9 plates of fishes numbered H, HI-HVIII. 7 plates of birds numbered I, I-VI. 14 plates of mammals numbered K, KI-KXIII. 12 plates of reptiles numbered L, LI-LXI.

RARE. Dutch translation by Ph. L. Statius Muller [see note below] of *Deliciae Naturae Selectae, oder auserlesenes*

*Naturalien Cabinet* (2 vols., Nürnberg, [1754]-66) and utilizing the same plates as the original edition. In the preliminaries there is a list of subscribers containing 91 names for 99 copies.

**Philippus Ludovicus Statius Muller.** (BORN: Leeuwarden, The Netherlands, 25 April 1725; DIED: Erlangen, Germany, 5 January 1776) *Dutch theologian & naturalist.* Statius Muller was a Lutheran clergyman at Amersfoort (1745-1749) and at Leeuwarden until 1756. He then accepted a position as professor of natural history at the University of Erlangen. He possessed a natural history cabinet containing many animals, some of which were depicted in Knorr's *Deliciae Naturae Selectae*, which Statius Muller translated into Dutch.

REFERENCES: Landwehr, *Studies in Dutch Books*, 1976: no. 97. • Nissen (ZBI): no. 2229. • NUC: 300, 517-8. • Pietsch, *History of Ichthyology*, 1995. • Wellcome Catalog (Books): 2, 405. (Statius Muller) Aa, *Biographisch Woordenboek*, 1852-78. • BAB: 481, 312-321 / 644, 284. • Engel, *Dutch Zoological Cabinets*, 1986: no. 1469. • Kobus, *Biographisch Woordenboek*, 1886. • Kooiman, W.J., *Philippus Ludovicus Statius Muller*. [Amsterdam,] 1950. 50 p. • NNBW: 9, cols. 701-2. • WBI.



THE UNDERGROUND WORLD, 1880

**KNOX, Thomas Wallace.** (BORN: 1835; DIED: 1896) *American author & traveler.*

REFERENCES: ABA: I 917, 35-42. • Adams, *Dictionary of American Authors*, 1904. • Appleton *Cyclopedia of American Biography*. • Herringshaw's *National Library of American Biography*. • National *Cyclopedia of American Biography*. • WBI.

**2727. — English, 1880.**

The | Underground World: | A Mirror Of | Life Below The Surface, | With Vivid Descriptions

Of The | Hidden Works Of Nature And Art. | Comprising | Incidents And Adventures Beyond The Light Of Day. | Interesting Sketches | Of | Mines And Mining In All Parts Of The World — Caves And Their | Mysteries — Famous Tunnels — Down In The Depths Of The Sea | Volcanoes And Their Eruptions — Petroleum — Under- | Ground Life Of Man And The Lower Animals. | Subterranean Works Of The Ancients. | Buried Treasures, ect., ect. | [rule] | Profusely Illustrated. | [rule] | By Thos. W. Knox, | [...2 lines of titles and memberships...] | Hartford: | The J.B. Burr Publishing Co. | 1880.

8°: [3]-942 p., frontispiece, illus.

CONTENTS: [Frontispiece]; [3-4], Title page, verso "Entered, according to Act of Congress, in the year 1873, ..."; [5]-6, "Preface."; 7-23, "Contents."; 24-26, "Illustrations."; 27-942, Text.

VERY SCARCE. A view of the underworld written in a pleasing narrative style filled with anecdotes and stories, some of which are fanciful. Imitating other writers such as Simonin's *La vie Souterraine* (1867), from which he appears to copy much information on mines and miners, Knox writes in 66 chapters about gold, silver, diamonds, coal, etc. Interspersed are good quality engraved illustrations showing mining scenes, etc.

Another issue: The text was also issued by the publisher under the title: *Underground, or Life Below the Surface*.

REFERENCES: NUC. • Sinkankas, *Gemology Bibliography*, 1993: no. 3479. • USGS Library Catalog.

**2728. Revised edition, 1882:** The | Underground World: | A Mirror Of | Life Below The Surface, | With Vivid Descriptions Of The | Hidden Works Of Nature And Art. | Comprising | Incidents And Adventures Beyond The Light Of Day. | Interesting Sketches | Of | Mines And Mining In All Parts Of The World — Caves And Their | Mysteries — Famous Tunnels — Down In The Depths Of The Sea | Volcanoes And Their Eruptions — Petroleum — Under- | Ground Life Of Man And The Lower Animals. | Subterranean Works Of The Ancients. | Buried Treasures, ect., ect. | [rule] | Profusely Illustrated. | [rule] | By Thos. W. Knox, | [...2 lines of titles and memberships...] | Hartford: | The J.B. Burr Publishing Co. | 1882.

8°: [1]-1016 p. A revised, enlarged and rearranged text, now describing things from the earth in 71 chapters. PAGE SIZE: 224 x 146 mm. VERY SCARCE.

REFERENCES: NUC. • Sinkankas, *Gemology Bibliography*, 1993: no. 3480.

**KOBELL, Franz Wolfgang Ritter von.** (BORN: Munich, Germany, 19 July 1803; DIED: Munich, Germany, 11 November 1882) *German mineralogist & poet.*

From 1820 to 1823, Kobell studied chemistry and mineralogy at the University of Landshut. In 1826 he was appointed professor of mineralogy at the University of Munich. There he introduced new methods of mineral analysis, and in 1855 invented the stauroscope for studying the optical properties of crystals. Sometime before January 1839 he invented a process for fixing images of the camera obscura on paper coated with chloride of silver which led to the development of photography. Kobell described many new mineral species. But today, he is best remembered as

## KOBELL



KOBELL

one of the outstanding German writers of the nineteenth century.

REFERENCES: ADB: 16, 789-96. • Barr, *Index to Biographical Fragments*, 1973: 142. • *Bulletin de la Société Française de Minéralogie*: 5 (1882), 297-9 [by G. Daubrée]. • DBA: I 674, 206-211; II 726, 103-112. • Dreyer, A., *Franz von Kobell: sein Leben und seine Werke*. Freising, F.P. Datterer, 1903. • *Encyclopaedia Britannica*, 11th edition: 15, 884. • Gernsheim, H., *The history of photography from the earliest use of the camera Obscura in the Eleventh century up to 1914*. London, 1955: p. 80. • Haushofer, A., *Franz von Kobell. Eine Denkschrift*. München, Akademie, 1884. 28 p. • Kobell, F.v., *Ausgewählte Werke*. Eingeleitet und herausgegeben von Günter Goepfert. München, Süddeutscher Verlag, c1972. 278 p. [Bibliography of the author's works: p. 273-275]. • Kobell, L.v., *Franz von Kobell. Eine Lebensskizze*. München, Braun und Schneider, [1884]. [1]-66 p., portrait. [Biography of Franz von Kobell]. • Lambrecht & Quenstedt, *Catalogus*, 1938: 239. • NDB: 12, 238-40 [by K. Pörnbacher]. • *Neues Jahrbuch für Mineralogie, Geologie und Paläontologie*: Jg. 1883, 1, 1-4 [by A. Haushofer]. • Poggendorff: 1, cols. 1286-7 & 3, 731-2. • Sarjeant, *Geologists*, 1980: 2, 1468. • Schaedler, *Biographisch Handwörterbuch*, 1891: 59. • WBI. • *World Who's Who in Science*: 1737.

### 2729. — German, 1830-1.

Charakteristik | der | Mineralien | von | Franz von Kobell. | [rule] | I. Abtheilung. | Mit 1 Lithographirten Tafeln. | [double rule] | Nürnberg, | Bei Johann Leonhard Schrag. | 1830.

2 vols. [VOL 1: 1830]  $\pi^2$  1-16<sup>8</sup>  $\chi^1$ ; 131 $\ell$ .; [4], [1]-255, [3] p., one plate (folding; crystal diagrams). [VOL 2: 1831]  $\pi^1$  1-19<sup>8</sup> 20<sup>4</sup>; 156 $\ell$ .; [2], [1]-306, [4] p. PAGE SIZE: 202 x 122 mm.

CONTENTS: [Vol 1] [2 pgs], Title page, verso "Campescher Druck."; [1 pg], Dedication to J.N. Fuchs.; [1 pg], Blank.; [1]-24, "Vorbericht."; [25]-26, "Bemerkung."; [27]-255, Text.; [1 pg], Blank.; [1 pg], "Verbesserungen."; [1 pg], Blank.; [At end], One folding plate.

[Vol 2] [2 pgs], Title page, verso "Campescher Druck."; [1]-298, Text.; [299]-306, "Register."; [4 pgs], Publisher's list.

VERY SCARCE. This is Kobell's first major work in mineralogy, and it gives detailed descriptions of

the characteristics used to distinguish minerals from one another. Emphasis is placed on the physical properties including discussions of crystallography, hardness, color, luster, etc. The section on descriptive mineralogy arranges the species according to the Mohs system of classification.

REFERENCES: Dana's 7th (Bibliography): 75. • *Freilich Sale Catalog*: no. 315. • NUC: 301, 139-44 [NK0214876].

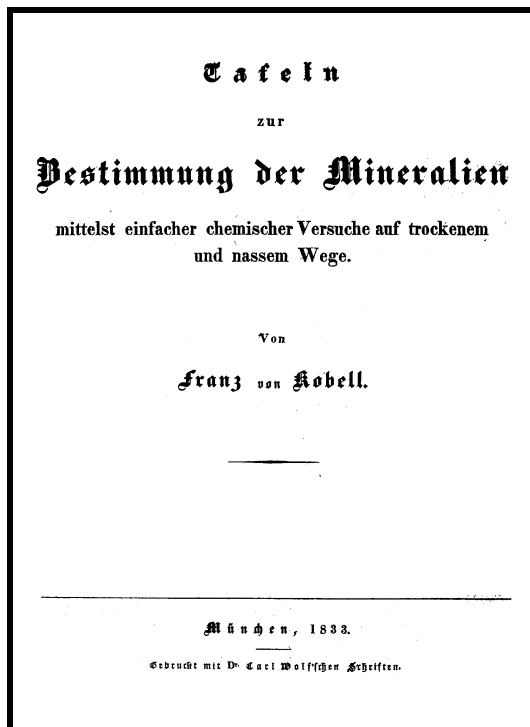
### 2730. — German, 1832.

Ueber die Fortschritte der Mineralogie seit Haüy. Eine öffentliche Vorlesung gehalten in der festlichen Sitzung der königl. bayerischen Akademie der Wissenschaften am 25. August 1832 von Dr. Franz von Kobell ... München, Joseph Lindauer'schen Buchhandlung, 1832.

8°: 26 p.

RARE. Reviews developments in mineralogy from 1801[?] to 1830.

REFERENCES: NUC: 301, 139-44 [NK0214963].



TAFELN, 1833

### Tafeln zur Bestimmung der Mineralien

#### 2731. — German, 1833 [First edition].

Tafeln | zur | Bestimmung der Mineralien | mittelst einfacher chemischer Veruche auf trockenem | und nassem Wege. | Von | Franz von Kobell. | [tapered rule] | [rule] | München, 1833. | [rule] | Gedruckt mit Dr. Carl Wolf'schen Schriften.

4°: [1]-44 5<sup>3</sup>; 19ℓ.; [I]-VI, [7]-38 p. PAGE SIZE: 256 208 mm.

CONTENTS: [I-II], Title page, verso blank.; [III]-VI, "Vorwort."—dated 29 March 1833.; [7]-38, Text.

RARE. First edition of a very popular work that provides a series of tables showing the characteristics for frequently encountered mineral species, and that can be utilized in determining an unknown mineral. Included are physical properties, such as color, streak, fracture, etc. and chemical makeup, such as behavior before the blowpipe, reactions to acids, etc. Many students in the universities of Germany and abroad faithfully used these tables in their mineral species determination. As an indicator of the text's usefulness, it went through 17 German editions and was translated into French, Swedish, English, Spanish and Russian [see below].

REFERENCES: NUC: **301**, 139-44 [NK0214945].

**2732. 2nd edition, 1835:** Tafeln zur Bestimmung der Mineralien mittelst einfacher chemischer Veruche auf trockenem und nassem Wege. Zweite umgearbeitete Auflage. München, C. Wolf, 1835.

4°. [i]-x, [1]-68 p. RARE.

REFERENCES: NUC: [no copy listed].

**2733. 3rd edition, 1838:** Tafeln | zur | Bestimmung der Mineralien | mittelst | einfacher chemischer Veruche auf | trockenem und nassem Wege. | Von | Franz von Kobell. | [rule] | Dritte, vermehrte Auflage. | [tapered rule] | München 1838. | Joseph Lindauer'sche Buchhandlung | (C.T.F. Sauer).

8°. [i]-xviii, [1]-70 p. PAGE SIZE: 220 x 125 mm. RARE.

REFERENCES: NUC: **301**, 139-44 [NK0214946].

**2734. 4th edition, 1846:** Tafeln | zur | Bestimmung der Mineralien | mittelst | einfacher chemischer Veruche auf trockenem | und nassem Wege. | Von | Franz v. Kobell | [rule] | Vierte vermehrte Auflage. | [tapered rule] | München 1846. | Joseph Lindauer'sche Buchhandlung. | (C.T.F. Sauer).

8°. π<sup>1</sup> \*7 1-48 5<sup>4</sup>; 43ℓ.; [i]-xvi, [1]-72 p. PAGE SIZE: 202 x 118 mm. VERY SCARCE.

CONTENTS: [i-ii], Title page, verso blank.; [iii]-xii, "Vorwort."—dated June 1846.; [xiii]-xvi, "Uebersicht."; [1]-66, Text.; [67]-72, "Register."

REFERENCES: NUC: **301**, 139-44 [NK0214947].

**2735. 5th edition, 1853:** Tafeln | zur | Bestimmung der Mineralien | mittelst | einfacher chemischer Veruche auf trockenem | und nassem Wege. | Von Franz v. Kobell. | [rule] | Fünfte vermehrte Auflage. | [ornate rule] | München, 1853. | Joseph Lindauer'sche Buchhandlung.

8°. [i]-xvi, [1]-87, [1] p. VERY SCARCE.

REFERENCES: Dana's 7th (Bibliography): 75. • NUC: **301**, 139-44 [NK0214948].

**2736. 6th edition, 1858:** Tafeln zur Bestimmung der Mineralien mittelst einfacher chemischer Veruche auf trockenem und nassem Wege. Sechste vermehrte Auflage. München, J. Lindauer, 1858.

8°. [i]-xx, [1]-95, [1] p. VERY SCARCE.

REFERENCES: NUC: **301**, 139-44 [NK0214949].

**2737. 7th edition, 1861:** Tafeln zur Bestimmung der Mineralien mittelst einfacher chemischer Veruche auf trockenem und nassem Wege. Siebente vermehrte Auflage. München, Lindauer, 1861.

8°. [i]-xviii, [1]-102 p. VERY SCARCE.

REFERENCES: NUC: **301**, 139-44 [NK0214950].

**2738. 8th edition, 1864:** Tafeln | zur | Bestimmung der Mineralien | mittelst | einfacher chemischer Versuche auf trockenem | und nassem Wege. | Von | Franz von Kobell. | [rule] | Achte vermehrte Auflage. | [ornate

rule] | München, 1864. | J. Lindauer'sche Buchhandlung. | (Schöpping.)

8°. [i]-xx, [1]-108 p. PAGE SIZE: 204 x 132 mm. VERY SCARCE.

CONTENTS: [i-ii], Title page, verso blank.; [iii]-iv, "Vorwort zur siebenten Auflage."—signed Kobell, November 1860.; [v]-xvi, "Einleitung."; xvii-xx, "Uebersicht."; [1]-98, Text.; [99]-100, "Anhang."; [101]-108, "Register."

REFERENCES: Dana's 7th (Bibliography): 75. • NUC: **301**, 139-44 [NK0214951].

**2739. 9th edition, 1869:** Tafeln zur Bestimmung der Mineralien mittelst einfacher chemischer Veruche auf trockenem und nassem Wege. Neunte vermehrte Auflage. München, J. Lindauer, 1869.

8°. [i]-xxii, [1]-110 p. VERY SCARCE.

REFERENCES: NUC: **301**, 139-44 [NK0214952].

**2740. 10th edition, 1873:** Tafeln zur Bestimmung der Mineralien mittelst einfacher chemischer Veruche auf trockenem und nassem Wege. Zehnte vermehrte Auflage. München, J. Lindauer, 1873.

8°. [i]-xx, [1]-108 p. PAGE SIZE: 215 x 135 mm. VERY SCARCE.

REFERENCES: NUC: **301**, 139-44 [NK0214953].

**2741. 11th edition, 1878:** Tafeln zur Bestimmung der Mineralien mittelst einfacher chemischer Veruche auf trockenem und nassem Wege. Elfte vermehrte Auflage. München, J. Lindauer, 1878.

8°. [i]-xxiv, [1]-110 p. SCARCE.

REFERENCES: Dana's 7th (Bibliography): 75. • NUC: **301**, 139-44 [NK0214954].

### Oebbeke's Stewardship

In 1882 after the death of Kobell, authorship of the *Tafeln* transferred to Konrad Oebbeke. Oebbeke [1853-1 Febr. 1932] was professor of mineralogy and geology at the Technical High School of Munich from 1895 to 1927. He was a competent mineralogist who continued to update the text writing the final six editions until the last issue appeared in 1921.

**2742. 12th edition, 1884:** Tafeln zur Bestimmung der Mineralien mittelst einfacher chemischer Veruche auf trockenem und nassem Wege. Zwöte verhemrte Auflage. München, 1884.

8°. [i]-xxiv, [1]-108, [2] p. SCARCE.

REFERENCES: NUC: **301**, 139-44 [no copy listed]. • (Oebbeke) *Mineralogical Magazine*: **23** (1933), ?? [by L.J. Spencer]. • Poggendorff: **6**, 1896.

**2743. 13th edition, 1894:** Tafeln zur Bestimmung der Mineralien mittelst einfacher chemischer Veruche auf trockenem und nassem Wege. Dritzeihen neu bearbeitet und verhemrte Auflage von K. Oebbeke ... München, J. Lindauer, 1894.

8°. [i]-xxiv, [1]-117 p. SCARCE.

REFERENCES: NUC: **301**, 139-44 [NK0214955].

**2744. 14th edition, 1901:** Franz v. Kobell's | Tafeln | zur | Bestimmung der Mineralien | mittelst | einfacher chemischer Veruche auf trockenem | und nassem Weg. | [rule] | Vierzehnte neu bearbeitet und verhemrte Auflage | von | K. Oebbeke. | [ornament] | München, 1901. | J. Lindauersche Buchhandlung | (Schöpping).

8°. [i]-xxiv, [1]-122 p. SCARCE.

REFERENCES: NUC: **301**, 139-44 [NK0214956].

**2745. 15th edition, 1907:** Tafeln zur Bestimmung der Mineralien mittelst einfacher chemischer Veruche auf trockenem und nassem Wege. Fünfzehnte neu bearbeitet und verhemrte Auflage von K. Oebbeke. München, J. Lindauer, 1907.

8°. [i]-xxvii, [1]-125 p. SCARCE.

REFERENCES: NUC: **301**, 139-44 [NK0214957].

## KOBELL

**2746. 16th edition, 1912:** Franz v. Kobell's | Tafeln | zur | Bestimmung der Mineralien | mittelst | einfacher chemischer Veruche | auf trockenem und nassem Wege | [rule] | Sechzehnte neu bearbeitete und vermehrte Auflage | von | K. Oebbeke | o. Professor an der K. Technischen Hochschule | [ornament] | München 1912 | J. Lindauersche Buchhandlung | (Schöpping).

8°: [i]-xxx, [1]-128 p. PAGE SIZE: 200 x 135 mm. VERY SCARCE.

CONTENTS: [i-ii], Title page, verso "K.B. Hof= und Univ=Buchdruckerei von Junge & Sohn in Erlangen."; [iii], "Vorwort."—signed K. Oebbeke, October 1911.; [iv], Blank.; [v]-xx, "Einleitung."; [xxi], Table of chemical elements.; [xxii]-xxv, "Literature."; xxvi-xxx, "Übersicht."; [1]-115, Text.; 116-118, "Anhang."; [119]-128, "Register."

REFERENCES: NUC: **301**, 139-44 [NK0214958].

**2747. 17th edition, 1921:** Tafeln zur Bestimmung der Mineralien mittelst einfacher chemischer Veruche auf trockenem und nassem Wege. Siebenten vermehrte Auflage. München, 1921.

8°: [i]-xxv, [1]-128 p. RARE.

REFERENCES: NUC: [no copy listed].

### French editions

**2748. First French edition, 1836:** Tableaux pour reconnaître les minéraux au moyen d'essais chimiques simples par la voie sèche et par la voie humide. Traduits de la 2nd edition Allemande par E. Melly. Genve, Impr. de C. Grauz, 1836.

8°: [1]-82 p., table.

RARE. Translation by E. Melly from *Tafeln zur Bestimmung der Mineralien* (2nd ed., München, 1838). A folding synoptic table is appended.

REFERENCES: CBN: **82**, 422.

**2749. 2nd French edition, 1838:** Tableaux pour reconnaître les minéraux au moyen d'essais chimiques simples par la voie sèche et par la voie humide. Traduits de la 2nd edition Allemande par E. Melly. Berne et Coire, J.F.J. Dalp., 1838.

8°: [1]-82 p., table.

RARE. Translation by E. Melly from *Tafeln zur Bestimmung der Mineralien* (2nd ed., München, 1838). A folding synoptic table is appended.

REFERENCES: CBN: **82**, 422.

### Swedish edition

**2750. Swedish edition, 1838:** Tabeller | för | Mineraliers bestämmande | medelst enkla kemiska försök på | torra och våta vägen; | af | Franz von Kobell, | Professor i München. | [tapered rule] | öfversättning ifrån andra tyska upplagan | af | L. F. Svanberg. | [ornate rule] | Stockholm, | Nordströmska Boktryckeriet, | 1838.

8°: [1]-[6]<sup>8</sup> 74 [8]<sup>2</sup>; 54<sup>l</sup>.; [1]-108 p.

CONTENTS: [1-2], Title-page, verso blank.; [3]-10, Forword.; [11]-108, Text.

RARE. Translation by L.F. Svanberg [1805-1878] from *Tafeln zur Bestimmung der Mineralien* (2nd ed., München, 1838). [Entry by Johan Kjellman]

REFERENCES: NUC: [no copy listed]. • SWIM.

### English edition

**2751. English edition, 1841:** Instructions | For The | Discrimination Of Minerals | By | Simple Chemical Experiments. | By | Franz Von Kobell, | Professor Of Mineralogy In The University Of Munich. | Translated From The German, | By Robert Corbet Campbell. | Glasgow: | Published By Richard Griffin & Company, | And Thomas Tegg, London. | [rule] | MDCCCXLI.

8°: [i]-xii, [1]-51, [1] p., illus. PAGE SIZE: 202 x 118 mm.

CONTENTS: [i-ii], Half title page, verso blank.; [iii-iv], Title page, verso blank.; [v], "Advertisement."—dated 20 February 1841.; [vi], Blank.; [vii]-xii, "Introduction."; [1]-46, Text.; [47]-51, "Index."; [1 pg], Blank.

VERY SCARCE. Translation by Robert Corbet Campbell from *Tafeln zur Bestimmung der Mineralien* (2nd ed., München, 1838). A folding synoptic table is appended.

REFERENCES: NUC: **301**, 139-44 [NK0214910].

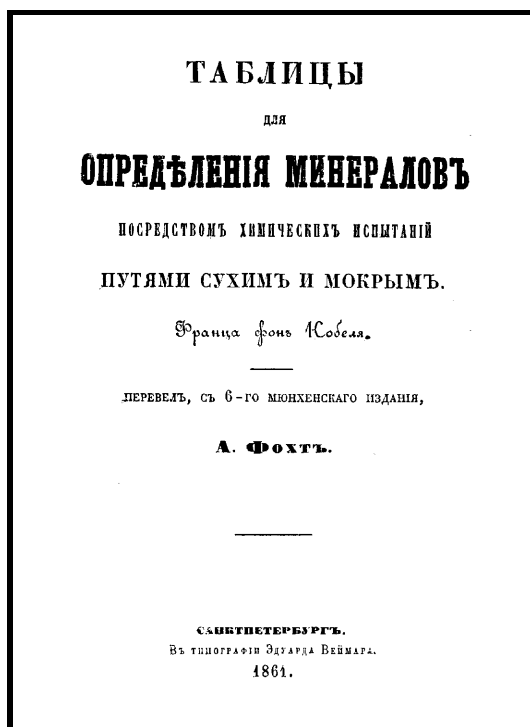
### Spanish edition

**2752. Spanish edition, 1872:** Tablas para determinar los minerales mediante sencillos ensayos químicos por la vía húmeda y seca. Traducidas del alemán según la edición nona por Teodoro Wolf. Quinto, Imprenta Nacional, 1872.

8°: [i]-x, [1]-88 p.

RARE. Translation by Teodoro Wolf from *Tafeln zur Bestimmung der Mineralien* (??,??).

REFERENCES: Maffei & Rua Figuera, *Bibliografía Mineral*, 1871-2. • NUC: **301**, 139-44 [NK0214944].



TABLICY, 1861

### Russian editions

**2753. First Russian transl., 1861:** Таблицы для определения Минералов помощиу простых испытаний сухим и мокрым путем Франца фон Кобелля. Перевел с немецкаго сочинения ... 1861.

12°: π<sup>7</sup> 1-8<sup>6</sup> 9<sup>5</sup>; 60<sup>l</sup>.; [I]-XIV, [1]-104, [2] p. PAGE SIZE: 200 x 125 mm.

CONTENTS: [I-II], Title page, verso SPHC.; [III], '.....

RARE. REDO THE TITLE AND CONTENTS.....

REFERENCES: NUC: [no copy listed].

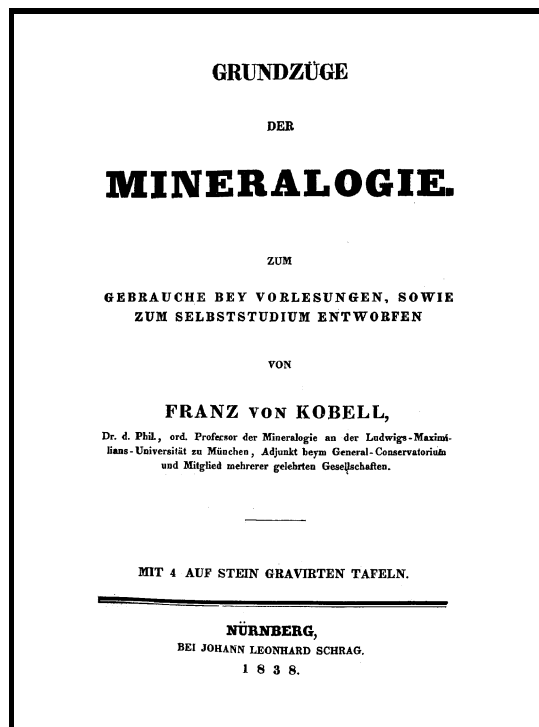
**2754. 2nd Russian edition, 1894:** Таблицы для определения Минералов помощиу простых испытаний сухим и мокрым путем Франца фон Кобелля. Перевел с немецкаго сочинения: Franz von Kobell's Tafeln zur Bestimmung der Mineralien, 13. neu bearbeitete und vermehrte Aufl. von K. Oebbeke

(1894) и дополнил, А. Леш. Русское изд. 2. St. Petersburg: Izd. K.L. Rikera, 1894.

8°: [2], [i]-xxv, [1], [1]-108 p. ("Literatura," p. [xxix]-xxx).)

RARE. Translation by Aleksandr Aleksandrovich Lesh [1837-1889] from *Tafeln zur Bestimmung der Mineralien* (13th ed., München, 1894).

REFERENCES: NUC: 301, 139-44 [no copy listed].



GRUNDZÜGE DER MINERALOGIE, 1838

### Grundzüge der Mineralogie

#### 2755. — German, 1838.

Grundzüge der Mineralogie. Zum Gebrauche Bey Vorlesungen, Sowie Zum Selbststudium Entworfen von Franz von Kobell, [...3 lines of titles and memberships...] [rule] Mit 4 Auf Stein Gravirten Tafeln. [double rule] Nürnberg, Bei Johann Leonhard Schrag. 1838.

8°:  $\pi^4$  1-21<sup>8</sup> 224 232; 178 $\ell$ .; [i]-viii, [1]-348 p., 4 folding plates (showing crystal forms and instruments), index to minerals. PAGE SIZE: 220 x 125 mm.

CONTENTS: [i-ii], Half title page, verso blank.; [iii-iv], Title page, verso blank.; [v]-viii, "Vorwort.;" [1]-4, "Einleitung.;" [5]-144, "I. Hauptstück. Terminologie.;" 145-154, "II. Hauptstück. Systematik.;" 155, "III. Hauptstück. Nomenklatur.;" 156-162, "IV. u. V. Hauptstück. Charakteristik und Physiographie.;" [163], "Charakteristik.;" [164], Blank.; 165-332, Text.; [333]-336, "Inhalt.;" [337]-346, "Alphabetischer Index zur Charakteristik.;" 347, "Als Druckfehler und Verbesserungen sind zu erwähnen.;" 348, "Neue Verlag von J.L. Schrag in Nürnberg.;" [At end], 4 folding plates.

RARE. Kobell's enlargement of Berzelius' system which classified minerals according to their chemical composition. In this important work, Kobell expands the chemical analyses of minerals in new directions. It is based upon the newest discoveries in mineralogy, especially the work carried on by THOMAS THOMSON in *Outlines of Mineralogy, Geology and Mineral Analysis* (2 vols., London, 1836), as well as Kobell's own researches. He utilizes the theories of Naumann in crystallization. He ignores species about which their chemical composition is not known.

REFERENCES: Dana's 7th (Bibliography): 75. • NUC: 301, 139-44 [NK0214905].

### Die Mineralogie

#### 2756. — German, 1847 [First edition].

Die Mineralogie. [tapered rule] Leichtfaßlich dargestellt mit Rücksicht auf das Vorkommen der Mineralien, ihre technische Benützung, Ausbringen der Metalle &c. Von Franz von Kobell. [tapered rule] Mit zwei Tafeln Krystallabbildungen. [ornate rule] Nürnberg. Verlag von Johann Leonhard Schrag. 1847.

8°:  $\pi^3$  1-13<sup>8</sup> 142; 109 $\ell$ .; [i]-vi, [1]-211, [1] p., 2 plates (folding; showing crystal diagrams). PAGE SIZE: 190 x 116 mm.

CONTENTS: [i-ii], Title page, verso blank.; [iii]-iv, "Vorwort"—signed Kobell.; [v]-vi, "Inhalt.;" [1]-203, Text.; [204]-211, "Register.;" [1 pg], "Dampescher Druck.;"

RARE. A highly popular mineralogy textbook that provides in a relatively small space essential information useful to the beginner and student. Crystallography, optical and physical properties, systematic, nomenclature, mineral descriptions are all covered with the whole being illustrated by crystal diagrams.

REFERENCES: NUC: 301, 139-44 [NK0214917].

2757. 2nd edition, 1858: Die Mineralogie. Leichtfaßlich dargestellt mit Rücksicht auf das Vorkommen der Mineralien, ihre technische Benützung, Ausbringen der Metalle &c. Von Franz von Kobell. Zweite umgearbeitete Auflage. Mit 4 Tafeln Abbildungen. [rule] Leipzig: Friedrich Brandstetter, 1858.

8°:  $\pi^4$  1-15<sup>8</sup> 164; 146 $\ell$ .; [i]-viii, [1]-284 p., 4 plates (folding; 2 show crystal diagrams, 2 showing apparatus including goniometers). PAGE SIZE: 205 x 130 mm.

CONTENTS: [i-ii], Half title page, "Die Mineralogie. Von Franz von Kobell.", verso blank.; [iii-iv], Title page, verso blank.; [v]-vi, "Inhalt.;" [vii]-viii, "Vorwort."—signed Kobell, April 1858.; [1]-232, Text.; [233]-240, "Anhang. Formeln zur Berechnungen der Krystalle.;" [241]-248, "Register."

VERY SCARCE. The enlarged text closely follows the structure of the first edition. The four plates show a total of 80 figures.

REFERENCES: *American Journal of Science*: 2nd Series, 25 (1858), 151. • NUC: 301, 139-44 [NK 0214918].

2758. 3rd edition, 1864: Die Mineralogie. Leichtfaßlich dargestellt mit Rücksicht auf das Vorkommen der Mineralien, ihre technische Benützung, Ausbringen der Metalle &c. Von Franz von Kobell. Dritte vermehrte Auflage. Leipzig, Friedrich Brandstetter, 1864.

8°: viii, 264 p. VERY SCARCE.

REFERENCES: *Freilich Sale Catalog*: no. 317. • NUC: 301, 139-44 [NK0214919].



## KOBELL

**2759. 4th edition, 1872:** Die Mineralogie. Leichtfaßlich dargestellt mit Rücksicht auf das Vorkommen der Mineralien, ihre technische Benützung, Ausbringen der Metalle &c. Von Franz von Kobell. Vierte vermehrte Auflage. Leipzig, Friedrich Brandstetter, 1872.

8°: vi, 272 p., 6 lithographic plates. SCARCE.

REFERENCES: NUC: **301**, 139-44 [NK0214921].

**2760. 5th edition, issue A, 1876:** Die Mineralogie. Fünfte vermehrte Auflage. Leipzig, Friedrich Brandstetter, 1876.

8°: viii, 252 p., illus. SCARCE.

REFERENCES: NUC: **301**, 139-44 [NK0214920].

**2761. 5th edition, issue B, 1878:** Die Mineralogie. Fünfte vermehrte Auflage. Leipzig, Friedrich Brandstetter, 1878.

8°: viii, 252 p., illus. SCARCE.

REFERENCES: *American Journal of Science*: 3rd Series, **15** (1878), 482. • NUC: **301**, 139-44 [NK0214920].

**2762. 6th edition, 1899:** ... Lehrbuch der Mineralogie in Leichtfaßlicher Dargestellung. Sechste Auflage ... völlig neu bearbeitet von K. Oebbeke und E. Weinschenk ... Leipzig, Friedrich Brandstetter, 1899.

8°: vii, [1], 338 p., 301 illus. SCARCE.

REFERENCES: NUC: **301**, 139-44 [NK0214912].

**2763. 7th edition, 1913:** ... Lehrbuch der Mineralogie in Leichtfaßlicher Dargestellung. Siebente neu bearbeitet Auflage ... völlig neu bearbeitet von K. Oebbeke und E. Weinschenk ... Leipzig, Friedrich Brandstetter, 1913.

8°: vii, [1], 405 p., illus., diagms. SCARCE.

REFERENCES: NUC: **301**, 139-44 [NK0214913].

### English edition

Mineralogy Simplified: A Short Method of Determining and Classifying Minerals by Means of Simple Chemical Experiments in the Dry and Wet Way. Translated from the last German edition of F. von Kobell ... by Dr. Henri Erni. (Philadelphia, 1867)

See: **Erni, Henry**.

### French editions

**2764. First French edition, 1872:** Les Minéraux | Guide Pratique | pour leur | Détermination Sûre Et Rapide Au Moyen De Simples Recherches | Chimiques Par Voie Sèche Et Par Voie Humide. | A l'usage des Chimistes, Ingénieurs, Industriels, etc. | Par | F. De Kobell | [short rule] | Publié D'Après La Dixième Édition Allemand | Par Le Comte Ludovic De La Tour-Du-Pin | Aavant-Propos et Additions | Par F. Pisani | Professeur De Chimie Et De Minéralogie. | [ornament] | Paris | J. Rothschild, Éditeur | 13, Rue Des Saints-Pères, 13 | 1872.

16°:  $\pi^8$  \*8 1-108; 96 $\ell$ .; [4], [i]-xxviii, 1-156, [4] p. PAGE SIZE: 157 x 100 mm.

CONTENTS: [4 pgs], Advertisements.; [i-ii], Half title page, verso blank.; [iii-iv], Title page, verso "Strasbourg, Typographie De G. Silbermann."; [v]-viii, "Avant-Propos."—signed F. Pisani.; [ix]-xxii, "Introduction."; [xxiii]-xxviii, "Table Synoptique."; 1-150, Text.; [151]-156, "Tableau Alphabétique."; [4 pgs], "Comptoir | Minéralogique Et Géologique | De | F. Pisani."

SCARCE. Translation by COMTE LUDOVIC DE LA TOUR-DU-PIN of *Die Mineralogie* (10th ed., München, 1873), with a preface and additions by F. PISANI. It was intended to be used by chemists, engineers, manufacturers, etc., by helping those that had some knowledge of chemistry to rapidly and exactly analysis the composition of a mineral.

REFERENCES: CBN: **82** 422. • *Nature*: 22 October 1874, p. 500. • NUC: **301**, 139-44 [NK0214924].

**2765. 2nd French edition, 1875:** F. De Kobell | Les Minéraux | Guide Pratique | pour | Leur Détermination Sûre Et Rapide | Au Moyen De Simples Recherches Chimiques | Par Voie Sèche Et Par Voie Humide | [rule] | Deuxième Édition Française, traduite et revue | Par Le Comte Ludovic De La Tour Du Pin | Membre correspondant de l'Académie

des Sciences et de la Société | d'Agriculture de la Scine-Inférieure | Avant-Propos Et Nombreuses Additions | Par F. Pisani | Professeur de Chimie et de Minéralogie | [ornament] | Paris | J. Rothschild, Éditeur | 13, Rue Des Saints-Pères, 13 | 1875.

16°: xviii, 163 p. SCARCE.

REFERENCES: NUC: **301**, 139-44 [NK0214925].

**2766. 3rd French edition, 1879:** F. De Kobell. Les Minéraux Guide Pratique pour Leur Détermination Sûre Et Rapide Au Moyen De Simples Recherches Chimiques Par Voie Sèche Et Par Voie Humide Troisième Édition Française, traduite et revue ParLe Comte Ludovic De La Tour Du Pin ... Avant-Propos Et Nombreuses Additions Par F. Pisani. Paris, J. Rothschild, Éditeur, 1879.

16°: xviii, 163 p. SCARCE.

REFERENCES: CBN: **82**, 422.

### Skizzen aus dem Steinreiche

**2767. — German, 1850.**

Skizzen | aus dem | Steinreiche. | [ornate rule] | Geschrieben | für die | gebildete Gesellschaft | von | Franz v. Kobell. | [ornate rule] | München. | Verlag von Christian Kaiser. | [rule] | 1850.

8°:  $\pi^4$  1-118; 92 $\ell$ .; [i]-vi, [2], [1]-256 p. PAGE SIZE: 175 x 115 mm.

CONTENTS: [i-ii], Title page, verso blank.; [iii], Dedication.; [iv], Blank.; [v]-vi, "Vorwort"—signed Kobell, December 1849.; [2 pgs], Blanks.; [1]-249, Text.; [1 pg], Blank.; [251]-256, "Register."

VERY SCARCE. In *Sketches from the Mineral Kingdom* Kobell gives four essays that provide discussions in a popular style on precious stones, ordinary stones, precious metals and finally on common metals and their ores. Well received in Germany within a few years it had been translated into English.

REFERENCES: NUC: **301**, 139-44 [NK0214943].

### English editions

**2768. English transl., 1852:** The | Earth, Plants, And Man. | Popular Pictures Of Nature. | By | Joachim Frederic Schouw, | Professor Of Botany In The University Of Copenhagen. | And | Sketches From The Mineral Kingdom. | By | Francis Von Kobell. | Translated And Edited By | Arthur Henfrey, F.R.S., F.L.S., &c. | [...2 lines of titles and memberships...] | London: | Henry G. Bohn, York-Street, Covent Garden. | 1852.

8°:  $\pi^3$  B-Z<sup>8</sup> A-Cc<sup>8</sup> Dd<sup>1</sup>; 204 $\ell$ .; [6], [1]-402 p., hand-colored frontispiece showing a map of the world. PAGE SIZE: 180 x 120 mm.

CONTENTS: [2 pgs], Half title page, "Bohn's Scientific Library | [rule] | The Earh, Plants, And Man. | And | The Mineral Kingdom.", verso blank.; [2 pgs], Title page, verso "Whiting, Beaufort House, Strand."; [1 pg], "Contents."; [1 pg], "Preface."; [1]-394, Text.; [395]-402, "Index."

SCARCE. English translation of a general natural history on plants and geography that also includes Kobell's *Sketches from the Mineral Kingdom*. This appears to be the first appearance in English of Kobell's work, although it was published separately as its own book. The text closely follows the content of the original *Skizzen aus dem Steinreiche* (München, 1850).

REFERENCES: NUC: [?????????].

**2769. — German, 1852.**

Popular Sketches | from | The Mineral Kingdom. | [rule] | By Francis Von Kobell. | [rule] | Translated From The German. [London, 1852]

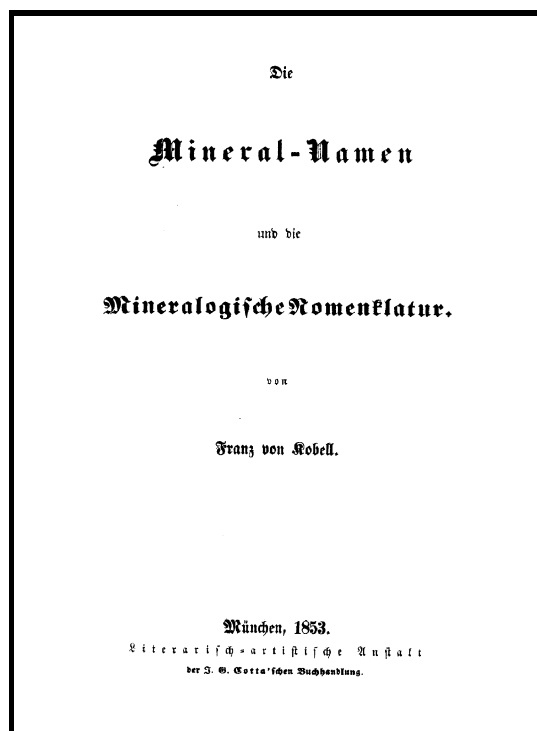
8°. VERY SCARCE.  
REFERENCES: NUC.

**2770. — German, 1847.**

Sketches from the Mineral Kingdom. Translated and edited by A. Henfrey. [London,] 1847.

8°.

VERY SCARCE. PART OF THE J.F SCHOUW SERIES ???????



DIE MINERAL-NAMEN, 1853

**Die Mineral-Namen**

**2771. — German, 1853.**

Die | Mineral-Namen | und die | Mineralogische Nomenklatur. | Von | Franz von Kobell. | München, 1853. | Literarisch-artistische Anstalt | der J.G. Cotta'schen Buchhandlung.

8°:  $\pi^2$  1-10<sup>8</sup> 112; 84 $\ell$ .; [4], [1]-160, [2], [2] adverts. p. PAGE SIZE: 217 x 128 mm.

CONTENTS: [2 pgs], Title page, verso blank.; [1 pg], Dedication to Wilhelm Haidinger.; [1 pg], Blank; [1]-5, "Einleitung."; 5-9, "I. [Namen aus der griech. u. scandinavisch-deutschen Mythologie]."; 9-36, "II. [Namen nach Gelehrten und Freunden der Mineralogie]."; 37-52, "III. [Namen nach den Fundorten]."; 52-60, "IV. [Namen nach der Krystallisation und Structur]."; 62-71, "V. [Namen nach der Farber]."; 71-77, "VI. [Namen n. Härte, spec. G., Glanz, Pellucidität u.a. phys. Eigenschaften]."; 77-91, "[VII. Namen n.d. chemischen Verhalten und d. chem. Zusammensetzung]."; 91-103, "VIII. [Namen nach willführlichen Beziehungen und Deutungen]."; 103-112, "IX. [Namen unbekannten oder

zweifelhaften Ursprungs]."; 112-136, "[Rückblick und Folgerungen]."; [137]-160, "Register mit Angabe der Synonimen."; [161], "Ergänzungen."; [1 pg], Blank; [2 pgs], Advertisements.

VERY SCARCE. An attempt to set mineralogical nomenclature into a common system. The author divides the subject into names derived from: 1. Greek and German mythology, 2. mineralogists and friends of mineralogy, 3. localities, 4. crystallization and structure, 5. color, 6. physical properties such as hardness, specific gravity, luster, etc., 7. chemical composition and reaction, 8. peculiarities, uses or allusions and 9. unknown or questionable origin. After discussing the importance of a universal nomenclature for different countries, Kobell gives several rules for naming minerals. For example, names derived from persons or localities should be written according to their original orthography, and not altered for each different language. Greek should be preferred over Latin, and the first name given a species should be preserved only when it adheres to these principles. The author commanded great authority in mineralogy, and many of the species names he suggested or endorsed are still in use today.

REFERENCES: *American Journal of Science*: 2nd Series, 17 (1854), 79-81. • Dana's 7th (Bibliography): 75. • NUC: 301, 139-44 [NK0214914].

**Die Mineralogie. Populäre Vorträge.**

**2772. — German, 1862.**

Die Mineralogie. Populäre Vorträge. Mit 67 Holzschnitter bildern (im Text). Frankfurt, Darmstadt, 1862.

8°: [1]-258 p., illus. VERY SCARCE.

REFERENCES: NUC: 301, 139-44 [NK0214921].

**Swedish edition**

**2773. Swedish transl., 1862:** Populära Föredrag | i | Mineralogi | af | Franz von Kobell, | Med 68 Träsnitt. | [short rule] | översatta | af | G. Lindström. | [short rule] | Stockholm | Axel Hellstrens Förlag. | 1862.

8°:  $\pi^2$  1<sup>8</sup> 2-12<sup>8</sup> [13]<sup>4</sup>; 102 $\ell$ .; [4], [1]-192, [8] p., 154 illus.

CONTENTS: [2 pgs], Title page verso blank.; [2 pgs], Contents, Errata.; [1]-192, Text.; [6 pgs], Index; [2 pgs], Advertisements.

VERY SCARCE. Translation by G. LINDSTRÖM [1829-1901] from *Die Mineralogie. Populäre Vorträge* (München, 1862). [Entry by Johan Kjellman]

REFERENCES: NUC: [no copy listed]. • SWIM.

**Dutch edition**

**2774. Dutch transl., 1868:** De Mineralogie. Populaire voordragten. Translated by H. van Riemsdijk. Breda, Broese, 1868.

8°: [4], 279 p., 67 woodcuts.

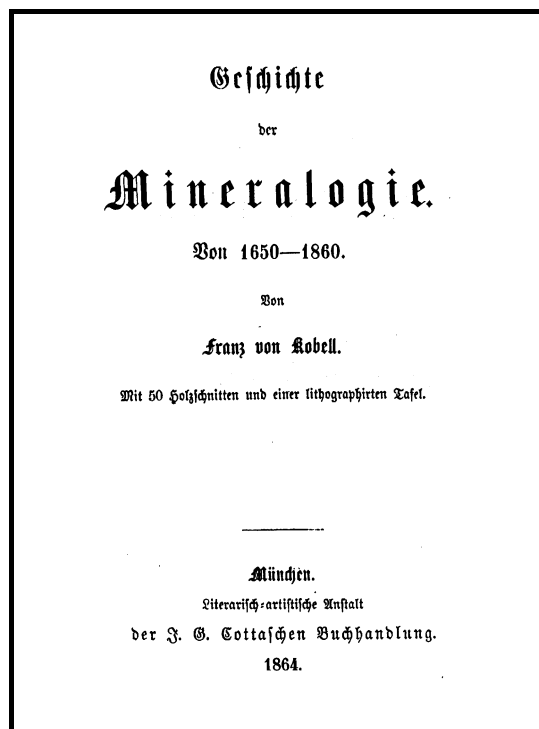
VERY SCARCE. Translated by H. VAN RIEMSDIJK this is the only Dutch edition of this popular mineralogical work.

REFERENCES: NUC: 301, 139-44 [no copy listed].

**Geschichte der Mineralogie**

**2775. — German, 1864.**

Geschichte | der | Mineralogie. | Von 1650—1860. | Von | Franz von Kobell. | Mit 50 Holzschnitten und einer lithographirten Tafel. |



GESCHICHTE DER MINERALOGIE, 1864

[In two columns separated by an ornament] Auf  
Veranlassung | und mit Unterstützung | seiner  
Majestät | des Königs von Bayern | Maximilian  
II. | [ornament] | Herausgegeben | durch die  
| historische Commission | bei der | Königl.  
Academie der | Wissenschaften. | [rule] |  
München. | Literarisch=artistische Anstalt | der  
J.G. Cotta'schen Buchhandlung. | 1864.

8°:  $\pi^8$  1-448; 360 $\ell$ .; [i]-xvi, [1]-703, [1] p., 50 illus.,  
one plate.

CONTENTS: [i-ii], Blank, verso series title page,  
"Geschichte der Wissenschaften in Deutschland ..."; [iii-  
iv], Title page, verso blank.; [v]-xiv, "Vorwort."; [xv]-  
xvi, "Inhalt."; [1], "I. Geschichte der Mineralphysik,  
Mineralchemie und Systematik. Von 1650 bis 1860."; [2],  
Blank.; [3]-33, "Geschichte der Mineralogie. I. Von 1650  
bis 1750. 1. Mineralphysik."; 33-57, "I. Von 1650 bis  
1750. 2. Mineralchemie."; 57-68, "I. Von 1650 bis 1750.  
3. Systematik. Nomenklatur."; 68-70, "Ueberblick der  
Periode von 1650 bis 1750."; 70-116, "II. Von 1750 bis  
1800. 1. Mineralphysik."; 116-154, "II. Von 1750 bis 1800.  
2. Mineralchemie."; 155-176, "II. Von 1750 bis 1800.  
3. Systematik. Nomenklatur."; 177-180, "Ueberblick der  
Periode von 1750 bis 1800."; 180-303, "II. Von 1800  
bis 1860. 1. Mineralphysik."; 303-331, "III. Von 1800  
bis 1860. 2. Mineralchemie."; 332-364, "III. Von 1800  
bis 1860. 3. Systematik."; 364-372, "III. Von 1800 bis  
1860. 4. Nomenklatur."; 372-382, "Ueberblick."; [383],  
"II. Geschichte der Mineralgattungen (Species). Von 1650  
bis 1860."; [384], Blank.; [385]-388, "Geschichte der  
Mineralien Gattungen (Species). Von 1650 bis 1860."; 388-  
536, "I. Gruppen der nichtmetallischen Mineralien."; 536-  
684, "II. Gruppen der metallischen Mineralien."; 684-690,  
"Anhang. Verbindungen mit organischen Säuren."; [691]-

703, "Namenregister der Mineralspecies."; [1 pg], Blank.

VERY SCARCE. Among the best histories of  
mineralogy is Kobell's treatment of its progress from  
1650 to 1860. The book is divided into two parts.  
The first of these is divided into three sections. The  
first section, covering the years 1650 to 1750, includes  
the period when mineralogy was first beginning to  
emerge as a true scientific discipline; the second  
section, extending from 1750 to 1800, examines the  
advances in chemistry, physics and crystallography that  
altered the course of mineralogy; the third section  
describes the years from 1800 to 1860 when methods  
of modern scientific investigation were applied. In  
each of these sections the author examines separately  
the physical, chemical, and systematic divisions of the  
science. In the final section, 1800 to 1860, there  
are further subdivisions into crystallography, optics,  
electricity, hardness, specific gravity, nomenclature, and  
magnetism. The second half of the book chronicles the  
history of about 200 individual mineral species. For  
each mineral listed, the time, the story of its discovery,  
together with many additional details, are given. An  
index to the described mineral species is included at  
the end; however, the book, published as number two  
of a 24 volume series about the history of science, was  
probably rushed into publication, which would explain  
why no comprehensive index to the history section is  
included.

Facsimile reprint, 1964: Geschichte | der | Mineralogie.  
| Von 1650—1850. | Von | Franz von Kobell. | Mit  
50 holzschnitten und einer lithographirten Tafel. | [rule]  
| München. | Literarisch=artistische Anstalt | der J.G.  
Cotta'schen Buchhandlung. | 1864. | Reprinted with the  
permission of the original publishers | [In two columns]  
Johnson Reprint Corporation | 111 Fifth Avenue, New  
York, N.Y. 10003 | Johnson Reprint Company Limited |  
Berkeley Square House, London, W.1. [i]-xvi, [1]-703 p., 50  
illus., plate.

REFERENCES: Dana's 7th (Bibliography): 75. • Freilich  
Sale Catalog: no. 316. • NUC: 301, 139-44 [NK0214904].

## 2776. — German, 1867.

Zur Berechnung | der | Krystallformen. | von |  
Franz v. Kobell. | [ornate rule] | München | Joseph  
Lindauer'sche Buchhandlung | 1867.

8°: [2], 54 p., 51 illus. VERY SCARCE.

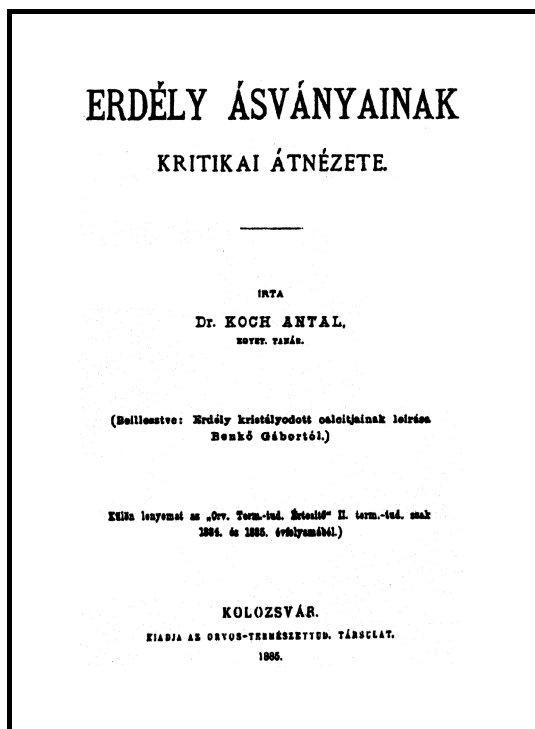
REFERENCES: NUC: 301, 139-44 [NK0214974].

KOCH, Antal. (BORN: Zombor, Hungary, 7 January  
1843; DIED: Budapest, Hungary, 8 February 1927)  
*Hungarian geologist & mineralogist.*

REFERENCES: Magyar Életrajzi Lexikon: 1, ?? • Papp,  
Magyar Topografikus, 2002: p. 400, portrait.

## 2777. — Hungarian, 1885 [First edition].

Erdély Ásványainak | Kritikai Átnézete. | [rule]  
| Irta | Dr. Koch Antal. | Egyet. Tanár.  
| (Beillesztve: Erdély kristályodott calcitjainak  
leírása | Benkő Gábortól. | Külöa leayemat as  
„Orv. Term.-iud. Értesíté” II. term.-iud. szak |  
1884. de 1885. évielyamából.) | Kolozsvár. | Kiadja  
Az Orgvos-Természettud, Társulat. | 1885.



ERDÉLY ÁSVÁNYAINAK, 1885

8°: 211 p.

RARE. This is the first topographical mineralogy of Transylvania in a modern sense. The title translates to: Critical review of the minerals of Transylvania (Kolozsvár).

Facsimile reprint, 1990: *Erdély ásványainak kritikai átnézete* irta Koch Antal. Miskolc, A Herman Ottó Múzeum kiadása, 1990. 211, 25 p. [ISBN 963-7221-27-1].

REFERENCES: BL: • Papp, *Magyar Topografikus*, 2002: pp. 336. • USGS Library Catalog.

**KOCH, Johann Georg.** (BORN: ; DIED: St. Petersburg, Russia (?), 1805) *Russian bureaucrat.*

Koch was appointed a royal advisor to the Russian court on matters of state, and he also sat on the school commission of St. Petersburg.

REFERENCES: LKG: p. 293.

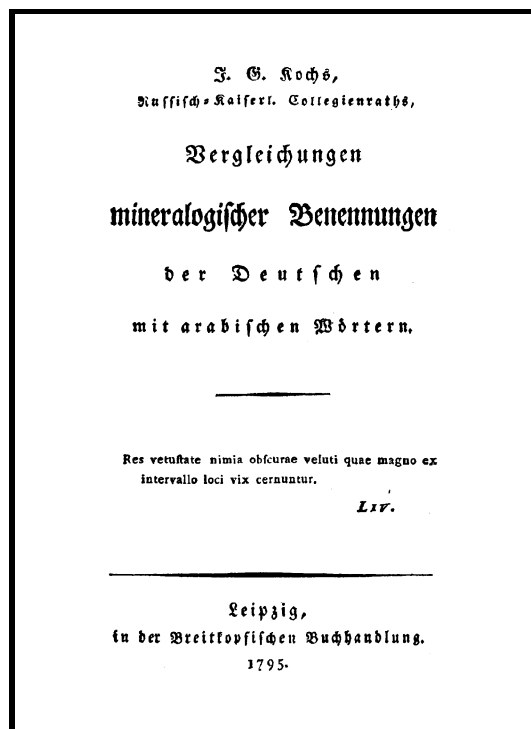
## 2778. — German, 1795.

J.G. Kochs, | Russisch=Kaiserl. Collegienraths,  
| Vergleichungen | mineralogischer Benennungen  
| der Deutschen | mit arabischen Wörtern. |  
[tapered rule] | [...2 lines of quotation, signed Liv...]  
| [tapered rule] | Leipzig, | In der Breitkopfschen  
Buchhandlung. | 1795.

8°: A-C<sup>8</sup> D3; 27ℓ.; [1]-54 p. PAGE SIZE: 182 x 100 mm. uncut.

CONTENTS: [1]-2], Title page, verso blank.; [3]-6, "An den Leser."—dated St. Petersburg, 1792.; [7]-54, "Vergleichungen."

RARE. In an original work, the author has created the earliest and perhaps only dictionary comparing



VERGLEICHUNGEN, 1795

the mineralogical terms of the German and Arabic languages. The text first provides the term in German followed by its Arabic equivalent, which is then followed by a lengthy definition in German.

REFERENCES: *Allgemeine Literatur-Zeitung*: August, 1795, p. 391. • BL: [445.a.39.(2.)]. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 286. • LKG: VII 2.

**KÖCHEL, Ludwig (Alois Ferdinand) Ritter von.** (BORN: Stein, near Krems, Austria, 14 January 1800; DIED: Vienna, Austria, 3 June 1877) *Austrian botanist, mineralogist & music bibliographer.*

Köchel worked as tutor while attending law school at Vienna University, from which he graduated in 1827. Afterward he became tutor to the four sons of Archduke Carl. On completion of this duty his services were recognized by the award of the Knight's Cross of the Order of Leopold in 1842. Köchel travelled much in pursuit of botany and mineralogy and became a recognized authority in both fields. He wrote, *Chronologisch-thematisches Verzeichnis sämtlicher Tonwerke Wolfgang Amade Mozarts* (Leipzig, 1862), the first comprehensive bibliography of Mozart's compositions—to this day still known by their Köchel number.

REFERENCES: ADB: 16, 405-7. • DBA: I 678, 162-167; II 729, 365-371. • *Grove's Dictionary of Musicians*: 10 (1980), 134 [by A.H. King]. • King, A.H., "Köchel, Ludwig (Alois Ferdinand) Ritter von," in: *The New Grove Dictionary of Music and Musicians*, 10 (1980), 134. • NDB. • *Österreich Biographisches Lexikon*. • WBI. • Wurzbach, *Biographisches Lexikon Österreich*, 1856-91.

## 2779. — German, 1859.

[Contained within a single rule box with ornate corners:]  
Die | Mineralien | des | Herzogthumes Salzburg.

## KOKSHAROV

| Mit einer Uebersicht | der | geologischen  
Verhältnisse und der Bergbaue | dieses Kronlandes.  
| Von | Dr. Ludwig Ritter von Köchel, | k.k. Rath.  
| Wien. | Druck und Verlag von Carl Gerold's Sohn.  
| 1859.

8°: LXXXIX, 160 p.

VERY SCARCE. LXXXIX pages on the geology and mining in the Duchy of Salzburg, + 160 pages on the mineralogy of the area. State of the Art when it was originally published, and now this is a great addition to any collection of those that like old scientific editions in this field of play.

**Facsimile reprint, 1979:** Dr. Ludwig Ritter von KÖCHEL - Die Mineralien des Herzogtums Salzburg mit einer Übersicht der geologischen Verhältnisse und der Bergbaue dieses Kronlandes

1979 reprint of the 1859 edition, original publisher Carl Gerold's Sohn, Wien [Vienna]. SC, 12x17x1.5 cm, LXXXIX + 160 pages, original owners address stamped on page 1. Edition in archaic German. Book is in VERY GOOD condition, except for some slight discoloration on the spine.

LXXXIX pages on the geology and mining in the Duchy of Salzburg, + 160 pages on the mineralogy of the area. State of the Art when it was originally published, and now this is a great addition to any collection of those that like old scientific editions in this field of play.

## KOESTLIN, Carl Heinrich.

REFERENCES: Poggendorff: 1, col. 1298.

### 2780. — Latin, 1780 [Dissertation].

Fasciculus animadversionum physiologici atque mineralogico-chemici argumenti [viz.] (Disquisitio observationum Della Torre de figura molecule um cruoris sanguinis. Examen mineralogico-chemicum materiei, quæ Herculeum et Pompejos anno 79 æræ christ. sepelivit. — De origine Pumicis officialis). Stuttgartiæ, 1780.

4°. A chemical and mineralogical examination of objects discovered at Pompeii and Herculeum, which had been buried in 79 A.D. with the eruption of Mount Vesuvius. RARE.

REFERENCES: LKG: VI 79 & XIV 614.

### 2781. — French, 1780.

Lettres sur l'Histoire Naturelle de l'Isle d'Elbe ecrites à son Excellence Monsieur le Comte de Borch ... par Charles Henri Koestlin ... Viennæ, Chez Jean Paul Kraus, 1780.

8°: 232 (i.e. 132) p., one map (folded). Includes bibliographical references. Natural history of Elba Island in Italy, including notes on the geology and mineralogy, written as a series of letters to the Polish Count Borch. RARE.

REFERENCES: LKG: XIV 534.

**KOKSHAROV, Nicolai Ivanovich von.** (BORN: Ust-Kamenogorsk, Toms, Russia, 23 November 1818; DIED: St. Petersburg, Russia, 2 January 1893) *Russian mineralogist, crystallographer & major-general in the Russian mining corps.*



KOKSHAROV

Koksharov was born into a family of mine engineers. Hence he was educated at St. Petersburg Military School of Mines (today the St. Petersburg Mining Institute), 1830-40. Being the outstanding student, he selected to accompany Murchison and De Verneuil, and afterwards De Keyserling in their extensive geological surveys of the Russian empire, 1840-41. From these travels Koksharov became interested in mineralogy, and most particularly Russian species. Traveling extensively throughout Europe, he made the acquaintance of many distinguished mineralogists, notably C.S. WEISS and G. ROSE in Germany and W.H. MILLER in England. Koksharov had a distinguished career, becoming director of the Imperial Mineralogical Society of St. Petersburg, 1865-92 and director of the St. Petersburg Mining Institute of Mines, 1872-81. He also held membership in some sixty Russian and foreign scientific societies. Koksharov's private collection of minerals consisting of about 3,250 specimens and particularly rich in Siberian species, was purchased by the British Museum of Natural History in 1865.

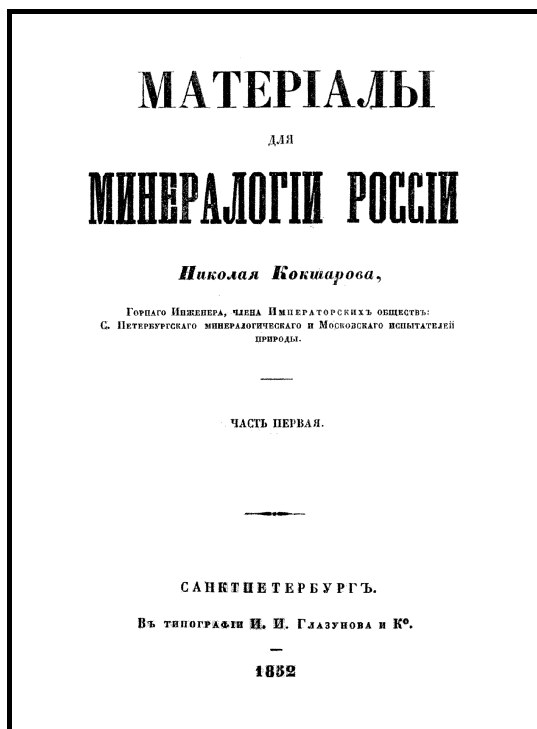
REFERENCES: *American Journal of Science*: 3rd Series, 145 (1893), 362. • Barr, *Index to Biographical Fragments*, 1973: 143. • *Bulletin de la Société Française de Minéralogie*: 16 (1893), 5-10. • Cleavelly, *World Palæontological Collections*, 1983: 175. • *Encyclopaedia Britannica*, 11th edition. • *Journal of the Society for the Bibliography of Natural History*: 8 (1978), 422. • Lambrecht & Quenstedt, *Catalogus*, 1938: 241. • Moliavko, *Geologi Biograficheskii*, 1985: p. 132. • Poggendorff: 1, col. 1300, 3, 738 & 4, 787. • *Proceedings of the Geological Society, London*: 49 (1893), 64-5. • Sarjeant, *Geologists*, 1980: 2, 1475 & Suppl. 1 (1986), 1, 558. • Shafranovsky, I.I., Николай Иванович Кокшаров [Nikolaus Ivanovich Koksharov]. St. Petersburg, 1964. [Biography of Koksharov, with portrait and bibliography.]. • *Zapiski Vserossiiskogo Mineralogicheskogo Obshchestva*: 97 (1968), p. 529-537. • Zvorykin, *Biograficheskii Slovar*, 1958: 1, 431.

### 2782. — Russian, 1852-70.

Материалы | Для | Минералогии России. |  
Николая Кокшарова, | [...3 lines of titles and  
memberships...] | [rule] | Часть Первая. | [ornate  
rule] | Санктпетербургъ. | Бъ типографіи И.И.  
Глазунова и К°. | [rule] | 1852 [-1870].

[TRANSLITERATED TITLE:]

Materialy | Dlia | Mineralologii Rossii. |



MATERIALY DLIA MINERALOGII ROSSII, 1852

Nikolaia Koksharova, | [...3 lines of titles and memberships...] | [rule] | Chast' Pervaia. | [ornate rule] | Sanktpeterbrg. | B tipografii I.I. Glazunova i K°. | [rule] | 1852 [-1870].

6 vols. plus atlas. [VOL 1: 1852] 8°: [6], I-III, [1] blank, [1]-412, [4] p., illus. [VOL 2: 1855] 8°: [4], [1]-339, [1] blank, [4] p., illus. (Page numbers of the first signiature are reversed). [VOL 3: 1858] 8°: [6], [1]-426, [4] p., illus. [VOL 4: 1862] 8°: [4], 515, [5] p. [VOL 5: 1866] 8°: [2], 373, [3] p., plates LXXV-LXXVII. [Atlas] 4°: 1-4 p., 74 plates (numbered I-LXXIV).

The bibliography of this Russian edition is difficult because of the rarity of the work. Contrary to what Sinkankas (1993) states this Russian edition did not exceed volume five as a separate publication, and contrary to what Grigor'ev & Shafranovskii (1949) state volume six did not appear as a separate volume. Instead it made an appearance as an article in the *Gornoi Zhurnal*. In addition the plates are numbered I-LXXVII. In the copy examined, plates LXXV-LXXVII were bound in at the end of volume five and not included in the Atlas proper. PAGE SIZE: 225 x 148 mm.

CONTENTS: [Vol 1] [2 pgs], Half title page, Материалы | Для | Минералогии России. | [rule] | Часть Первая. | [rule], verso blank.; [1 pg], Dedication to Александру Николаевичу [Alexsander Nikolavich], signed Nikolai Koksharov.; [1 pg], Blank.; [2 pgs], Title page, verso "Печатать Позволяюща | ..."; [1]-III, "Предисловіе."; [1 pg], Blank.; [1]-412, Text.; [4 pgs], "Оглавление | Первой Части." [Vol 2] [2 pgs], Half title page, Материалы | Для

| Минералогии России. | [rule] | Часть Вторая. | [rule], verso blank.; [2 pgs], Title page, verso "Печатать Позволяюща | ..."; [1]-339, Text.; [1 pg], Blank.; [4 pgs], "Оглавление | Второй Части."

[Vol 3] [2 pgs], Half title page, Материалы | Для | Минералогии России. | [rule] | Часть Третья. | [rule], verso blank.; [2 pgs], Title page, verso "Печатать Позволяюща | ..."; [1 pg], "Предисловіе | Къ Третвей Части."—signed N. Koksharov.; [1 pg], Blank.; [1]-426, Text.; [1 pg], Blank.; [4 pgs], "Оглавление | Третей Части."

[Vol 4] [2 pgs], Half title page, verso blank.; [2 pgs], Title page, verso blank.; [1]-515, Text (p. 112, folding plate showing the famous Alexanderite specimen); [1 pg], Blank.; [4 pgs], "Оглавление | Четвертой Части." [=index].

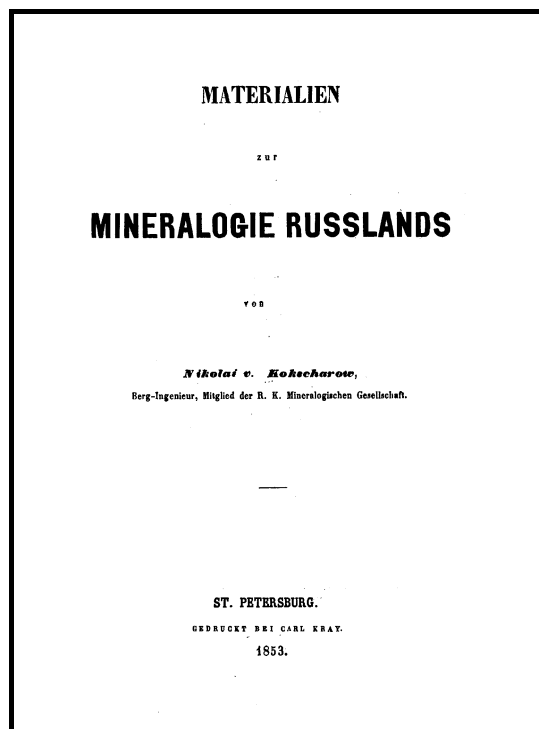
[Vol 5] [2 pgs], Title page, verso blank.; [1]-373, Text (p. 238, folding diagram); [1 pg], Blank.; [2 pgs], "Оглавление | Пятой Части." [=index]; [At end], Plates LXXV-LXXVII.

VERY RARE. This is perhaps the finest topographical mineralogy published in the nineteenth century and certainly one of the most important to ever appear. Koksharov was a pioneer of a new progressive line of thought concerning descriptive mineralogy. He firmly believed that substituting accurate crystallographic values, chemical analysis and physical studies for the simple mineral descriptions used until that time, would greatly advance mineralogical studies. This is the method he used in this work, still the best reference for studying crystallized Russian minerals.

Originally, the text for these volumes appeared in Russian as a series of articles published in the *Gornoi Zhurnal*. Each article dealt with a single mineral species and included meticulous notes on associations and crystal forms. The descriptions give all the pertinent information, including listings of all the known Russian localities. There are also long lists of exterior angles all meticulously measured with a reflecting goniometer by the author. Today, these measurements are still considered to be extremely reliable. Complementing the measurements are exquisite crystal illustrations in orthorhombic projection, all drawn by Koksharov. The crystal drawings are seemingly always complete, perfect and extremely complex. After enough articles had appeared, they were collected together to form individual volumes of *Materialy dlia Mineralogii Rossii*. A consequence of this procedure is, however, that there is no apparent order of presentation within the compiled volumes.

This work appeared simultaneously in two editions. The Russian edition as described is very rare in complete sets, even within Russia. Perhaps as an indication of a lack of interest in the continuation of the Russian edition, it ceased publication as separate volumes with number five. However, the German edition, described in the next entry, had greater popularity outside Russia, and continued publication for another twenty years and comprises an additional six volumes.

REFERENCES: BL. • Grigorev & Shafranovskii, *Russkie Mineralogi*, 1949: pp. 98-118. • Sinkankas, *Gemology Bibliography*, 1993: no. 3498.



MATERIALIEN ZUR MINERALOGIE RUSSLANDS, 1853

**2783.** German transl., 1853-91: Materialien | zur | Mineralogie Russlands | von | Nikolai v. Koksharov, | Berg-Ingenieur, Mitglied der R.K. Mineralogischen Gesellschaft zu St.-Petersburg | und des Naturforschenden Vereins zu Moskau. | [rule] | Erster Band. | [rule] | St.-Petersburg. | Gedruckt bei Carl Kray. | 1853 [-1891].

[TILE PAGE OF THE ATLAS READS:]

Materialien | zur | Mineralogie Russlands | von | Nikolai v. Koksharov, | Berg-Ingenieur, Mitglied der R.K. Mineralogischen Gesellschaft. | [short rule] | Atlas. | [ornate rule] | St. Petersburg. | Gedruckt bei Carl Kray. | 1853.

11 vols. plus an atlas. [VOL 1: 1853] 8°:  $\pi^2$  1-148  $\chi^2$ ; 116 $\ell$ .; [4], [1]-226, [4] p. [VOL 2: 1854-57] 8°: [1]-238 24 $\beta$ ; 189 $\ell$ .; [1]-373, [1] blank, [4] p. [VOL 3: 1858] 8°:  $\pi^8$  2-258; 200 $\ell$ .; [1]-394, [6] p., one folding plate (Topaz). [VOL 4: 1862] 8°:  $\pi^8$  2-258  $\chi^2$ ; 202 $\ell$ .; [1]-400, [4] p. one folding plate (p. 56, Alexanderite). [VOL 5: 1866] 8°:  $\pi^8$  2-248; 200 $\ell$ .; [1]-397, [1] blank, [3], [1] blank p. [VOL 6: 1870] 8°:  $\pi^8$  2-288; 224 $\ell$ .; [1]-407, [1] p., folding diagram (Page 10). [VOL 7: 1875] 8°:  $\pi^8$  2-238 24 $\beta$ ; 193 $\ell$ .; [1]-384, [1], [1] blank p. [VOL 8: 1878] 8°:  $\pi^8$  2-268 27 $\beta$ ; 217 $\ell$ .; [1]-432, [2] p. [VOL 9: 1884] 8°:  $\pi^8$  2-238; 184 $\ell$ .; [1]-365, [1] blank, [2] p. [VOL 10: 1888] 8°:  $\pi^8$  2-248; 192 $\ell$ .; [1]-350, [2] p. [VOL 11: 1891] 8°:  $\pi^8$  2-68 74-124 134; 72 $\ell$ .; [1]-137, [1], [2], I-XI, [1] blank p. [Atlas: 1853-91] 4°:  $\pi^1$ ; 1 $\ell$ .; [2] p., 87 plates, numbered I-LXXXVII. PAGE SIZE: 225 x 150 mm.

CONTENTS: [Vol 1] [2 pgs], Half title page, "Materialien zur Mineralogie Russlands. Erster Band," verso blank.; [2 pgs], Title page, verso "Zum Druck erlaubt..."—dated 21 March 1853.; [1]-2, "Vorwort.;" [3]-226, Text.; [1 pg], "Register zum ersten Bande.;" [1 pg], Blank.; [1 pg], "Druckfehler des ersten Bandes.;" [1 pg], Blank.

[Vol 2] [1-2], Half title page, "Materialien zur Mineralogie Russlands. Zweites Band," verso blank.; [3-4], Title page, verso "Zum Druck erlaubt..."—dated 19

February 1857.; [3], "Vorwort zum zweiten Bande.;" [4], Blank.; [5]-373, Text.; [1 pg], Blank.; [2 pgs], "Register zum zweiten Bande.;" [1 pg], "Druckfehler des zweiten Bandes.;" [1 pg], Blank.

[Vol 3] [1-2], Half title page, "Materialien zur Mineralogie Russlands. Dritter Band," verso blank.; [3-4], Title page, verso "Zum Druck erlaubt..."—dated 3 December 1857.; [5], "Vorwort zum Dritten Bande.;" [6], Blank.; [7]-394, Text.; [3 pgs], "Register zum Dritten Bande.;" [1 pg], Blank.; [1 pg], "Druckfehler des dritten Bandes.;" [1 pg], Blank.; [At end], One folding plate.

[Vol 4] [1-2], Half title page, "Materialien zur Mineralogie Russlands. Vierter Band," verso blank.; [3-4], Title page, verso Russian text.; [5]-400, Text.; [3 pgs], "Register zum vierten Bande.;" [1 pg], "Druckfehler des vierten Bandes."

[Vol 5] [1-2], Half title page, "Materialien zur Mineralogie Russlands. Fünfter Band," verso blank.; [3-4], Title page, verso Russian text.; [5]-397, Text.; [1 pg], Blank.; [2 pgs], "Register zum fünften Bande.;" [1 pg], "Druckfehler des fünften Bandes.;" [1 pg], Blank.

[Vol 6] [1-2], Half title page, "Materialien zur Mineralogie Russlands. Sechster Band," verso blank.; [3-4], Title page, verso Russian text.; [5]-407, Text.; [1 pg], "Register zur sechsten Bande."

[Vol 7] [1-2], Half title page, "Materialien zur Mineralogie Russlands. Siebenter Band," verso blank.; [3-4], Title page, verso blank.; [5]-384, Text.; [1 pg], "Register zum siebenten Bande.;" [1 pg], Blank.

[Vol 8] [1-2], Half title page, "Materialien zur Mineralogie Russlands. Achter Band," verso blank.; [3-4], Title page, verso Russian text.; [5]-432, Text.; [2 pgs], "Register zur achten Bande."

[Vol 9] [1-2], Half title page, "Materialien zur Mineralogie Russlands. Neunter Band," verso blank.; [3-4], Title page, verso Russian text.; [5]-365, Text.; [1 pg], Blank.; [1 pg], "Register zum neunten Band.;" [1 pg], "Druckfehler der neunten Bandes."

[Vol 10] [1-2], Half title page, "Materialien zur Mineralogie Russlands. Zehnter Band," verso blank.; [3-4], Title page, verso Russian text.; [5]-350, Text.; [1 pg], "Register zum zehnten Bande.;" [1 pg], "Druckfehler des zehnten Bandes."

[Vol 11] [1-2], Half title page, "Materialien zur Mineralogie Russlands. Elfter Band," verso blank.; [3-4], Title page, verso Russian text.; [5]-128, Text.; [129]-130, "Dem Andenken N.I. de Koksharov.;" [131]-137, Biography of Koksharov.; [138], "Register zum elften Bande.;" [1 pg], "Register zu den elf Bänden der Materialien zur Mineralogie Russlands von N. von Koksharov. 1853-1892.;" [1 pg], Blank.; I-XI, Index to volumes 1-11.; [1 pg], Blank.

[Atlas] [2 pgs], Title page, verso "Zum druck erlaubt. St. Petersburg den 3 April 1853.;" 87 plates, numbered I-LXXXVII.

PLATES: The plates of the atlas are numbered I-LXXXVII. They each show crystal drawings, most complex with their faces labelled. Most of the plates are unsigned; however, those few that are not blank are signed either C. Kray, A. Münster or Jvanson sculp. Plates LXXXIII-LXXXVII are signed in cyrillic type.

RARE. Translation by Koksharov of *Materialy dlia Mineralogii Rossii* (6 vols., St. Petersburg, 1852-70). This German edition, typically lagged behind the Russian original by about a year on each volume. However, beginning with volume seven the text was translated directly from the articles appearing in the *Gornoi Zhurnal*. This translation contains the same illustrations and plates as the original, and is the most commonly seen edition outside of Russia, and perhaps may have had a larger edition. Because publication of this edition was spread over nearly forty years, this work is extremely rare in complete copies.

REFERENCES: Dana's 7th (Bibliography): 75. • Freilich

*Sale Catalog*: no. 318. • Grigorev & Shafranovskii, *Russkie Mineralogi*, 1949: pp. 98-118. • Sinkankas, *Gemology Bibliography*, 1993: no. 3499. • Ward & Carozzi, *Geology Emerging*, 1984: no. 1293.

# 2784. — Russian, 1863.

Лекции | Минералогии, | читанныя | Николаемъ Кокшаровымъ, | [...6 lines of titles and memberships...] | [ornate rule] | Санктпетербургъ. | Въ типографіи Императорской Академіи Наукъ. | 1863.

[TRANSLITERATED TITLE:]

Lektsii | Mineralogii, | chitannyya | Nikolaem Koksharovym, | [...6 lines of titles and memberships...] | [ornate rule] | Sanktpeterburg. | V tipografii Imperatorskoĭ Akademii Nauk. | 1863.

4°:  $\pi^3$  1-284 291; 116 $\ell$ .; [6], [1]-226 p., 401 illus.

PAGE SIZE: 300 x 222 mm.

CONTENTS: [2 pgs], Half title page, Лекціи | Минералогіи. | [rule] | Н. Кокшаровъ. | [rule],” verso blank.; [2 pgs], Title page, verso Дозволено Пензурою. С. Петербургъ, 30 Января 1863 года.; [1 pg], Dedication, signed Nicolai Koksharov.; [1 pg], Blank.; [1]-226, Text.

VERY SCARCE. No more published. Issued as the first part of a proposed series of lessons in general mineralogy, the present volume examines crystallography, by illustrating the subject with numerous figures, reproduced from the authors great *Materialien zur Mineralogie Russlands* (11 vols., St. Petersburg, 1853-91), and simple, thorough explanations. The chapter on the irregularities of crystals is particularly complete and is made up largely of the results of his own crystallographic researches. It contains extended tables of measurements of a considerable number of species; and is illustrated by many woodcuts.

REFERENCES: BL. • *Freilich Sale Catalog*: no. 320. • Grigorev & Shafranovskii, *Russkie Mineralogi*, 1949: pp. 98-118.

**2785. German transl., 1865:** Vorlesungen | über | Mineralogie | von | Nikolai v. Koksharov, | [...7 lines of titles and memberships...] | [rule] | Aus dem Russischen übersetzt mit einigen Veränderungen und Zusätzen. | [rule] | Erste Band. | [rule] | Mit 571 im Text gedruckten Holzschnitten. | [ornate rule] | St.-Petersburg. | Gedruckt bei Alexander Jacobson. | 1865.

4°: [12], [1]-344, [1] errata, [1] blank p., 571 illus. PAGE SIZE: 298 x 213 mm.

CONTENTS: [2 pgs], Half title page, “Nikolai v. Koksharov’s | Vorlesungen | über | Mineralogie. | [rule] | Erste Band. | [rule],” verso blank.; [2 pgs], Title page, verso Russian text.; [1 page], Dedication to Konstantin Wladimirowitsch Tschewkin.; [1 pg], Blank.; [2 pgs], “Vorwort.”; [4 pgs], Table of contents.; [1-5], “Erste Vorlesung Einleitung.”; 6-11, “Literatur.”; 11-344, Text.; [1 pg], Errata.; [1 pg], Blank.

VERY SCARCE. No more published. Translated by Koksharov from *Lekcii Mineralogii* (St. Petersburg, 1863). It contains the same illustrations as the original.

REFERENCES: *American Journal of Science*: 2nd Series, 42 (1866), 125-6. • BL. • Dana’s 7th (Bibliography): 75. • Grigorev & Shafranovskii, *Russkie Mineralogi*, 1949: pp. 98-118. • NUC: 302, 538-9 [NK 0238622].

**KOLENATI, Friedrich.** (BORN: Prag (Praha), Czech Republic, 12 August 1812; DIED: Sennhütte, Czech Republic, 17 July 1864) *Czech crystallographer & naturalist.*

Kolenati was a medical doctor, who first taught botany at the University of Prague. From 1842 to 1846 he was assistant professor of zoology at the University of St. Petersburg, after which he returned to Prague and became a privatdocent at the University in pharmacy, zoology, botany and crystallography. In 1849 he was appointed ordinary professor zoology, botany, mineralogy, geology, and paleontology at the Polytechnic Institute of Brünn.

REFERENCES: *Casopis pro Mineralogii a Geologii*: 7 (1962), pt. 4, p. 452, portrait [by R. Kettner]. • DBA: I 690, 77-86. • Poggendorff: 1, cols. 1301-2 & 3, 740. • Sarjeant, *Geologists*, 1980: 2, 1476. • WBI. • Wurzbach, *Biographisches Lexikon Österreich*, 1856-91.

# 2786. — German, 1854.

Die Mineralien Mährens und Österreichisch Schlesiens, deren Fundorte und ökonomischtechnische Verwendung. Brünn, 1854.

8°: 123 p. A topographical mineralogy of Schlesia and “Mährens” that Wrany describes as unreliable. It lists localities for the various species described. VERY SCARCE.

REFERENCES: BMC: 2, 1012. • *Katalog Bergakademie Freiberg*, 1879: p. 366 [VI. 985.]. • Wrany, *Geschichte der Chemie in Böhmen*, 1902: p. 211-212.

# 2787. — German, 1855.

Elemente der Krystallographie. Brünn, 1855.

8°: 215 p., 11 plates. A elementary textbook of crystallography. VERY SCARCE.

REFERENCES: BMC: 2, 1012. • Dewalque, Gustav., *Catalogue des Ouvrages de Géologie, de Minéralogie et de Paléontologie ainsi que des Cartes Géologiques qui se trouvent dans les principales bibliothèques de Belgique*. Liège, 1884. xii, [2], 394 p: no. 281. • Wrany, *Geschichte der Chemie in Böhmen*, 1902: p. 211-212.

# KÖLESERI, Samuel.

F.R.S., 1729.

# 2788. — Latin, 1717.

Samuelis Köleseri | De Keres-eer | Secretarii Gubernialis | Cæsareo-Regii, Principatūs | Transilvaniæ, &c. | Auraria | Romano-Da- | Cica. | [Rectangular vignette, showing a scene of a working gold mine.] | Cibinii, | [rule] | Typis publicis, Anno M. DCC. XVII.

8°: 237 (i.e., 243) p., frontispiece (portrait of Köleseri). Not all copies have the vignette on the title page.

RARE. A classic work describing in all its aspects the Transylvanian gold mining locations, processes and the uses to which the metal is put. It contains a history of the mining activities in the region since Roman times.

Another edition, 1780: *Auraria Romano-Dacica, una cum Valachiae Cis-Alutanae Subterraneae descriptione Michaelis Schendo*. Iterum edita curis Ioannis Seivert. Posenii, Sumptibus I.M.Landerer, 1780. 295 p., map.

REFERENCES: BL.



## KONRAD VON MEGENBERG



KÖNIG

**KÖNIG, Emanuel.** (BORN: Basel, Switzerland, 1 November 1658; DIED: Basel, Basel-Stadt, Switzerland, 30 July 1731) *Swiss physician.*

Until 1674, he attended the Gymnasium at Basel. 1677, received his M.A. from the University of Basel. 1682, received his M.D. from the University of Basel.

He travelled for a number of years in France and Italy. 1695-1703, professor of Greek, University of Basel. 1703-1711, professor of natural philosophy, University of Basel. 1711-, professor of theoretical medicine, University of Basel. Those academic positions were not obtained without patronage. Through the efforts of his friend Georg Wolfgang Wedel, professor of medicine at Jena, he was admitted into the Accademia Naturae Curiosorum. 1682, he became a member of the Accademia Naturae Curiosorum (after 1687, the Accademia Caesaræ Leopoldina), taking the name "Avicenna."

REFERENCES: ADB. • DBA: I 682, 3-8; II 732, 381-382. • Hirsch, *Biographisches Lexikon*, 1884-8. • Jöcher, *Gelehrten-Lexikon*, 1750-51: 2, 2136. • Jöcher, *Gelehrten-Lexikon, Supplement*: 3, 641-3. • *Nouvelle Biographie Générale* (Hoefer): 28, 7-8. • Partington, *History of Chemistry*, 1961-70: 2, 318, 616, 713-4. • Poggendorff: 1, col. 1293. • Thorndike, *History of Magic*, 1923-58: 7, 43-7. • WBI.

**2789. — Latin, 1686** [First edition].

Emanuelis König | [...3 lines of titles and memberships...] | Regnum | Minerale, | Physicè, Medicè, Anatomicè, Chymicè, Alchymicè, | Analogicè, Theoreticè, & Practicè | Investigatum, perscrutatum & erutum. | Metallorum nimirum, Lapidum, Salum, | Sulphurum, Terrarum, quin & Acidularum, | Thermarum Naturam, Ortum, Differentias, Præ- | parationes selectissimas Usúsque multiplices | candidè sistens. | [ornament] | Basileæ Rauracorum, | [ornate rule] | Sumptibus & Typis Emanuelis & Joh. Georgii | König, Bibliopol. | Anno M. DC. LXXXVI.

4<sup>o</sup>: [8], [1]-192, [4] p., title in red and black, tail pieces, initials. Title in red and black.

VERY SCARCE. The author at his own press published works on the three kingdoms of nature. *Regnum Minerale* deals first with the names,

differences, generation, nutrition and augmentation of minerals and metals and whether they have organs. The second part describes the different metals: gold (including fulminating gold), silver, iron, copper, tin, lead, mercury, and antimony. He recognizes cinnabar in both natural and artificial. There are brief sections on bismuth, orpiment, cadmia, realgar, and zinc. Section three describes stones including gems, the magnet, lapis lazuli, pyrites, gypsum, the Bologna stone, and coral. Part four is on the middle salts and includes the preparation of acids. It deals with common salt, nitre, vitriols, alums, sal armoniac, etc. Other sections describe sulfur, amber, asphalt, ambergris and camphor, concluding with medicinal earths and an appendix on mineral waters.

REFERENCES: BL: [724.g.1.(3.)]. • LKG: III 50. • Partington, *History of Chemistry*, 1961-70: 2, p. 713-4. • Sinkankas, *Gemology Bibliography*, 1993: [no copy listed]. • VD17: 23:240450D [dated 1687].

**2790. Another issue, 1687:** Emanuelis König | [...3 lines of titles and memberships...] | Regnum | Minerale, | Physicè, Medicè, Anatomicè, Chymicè, Alchymicè, | Analogicè, Theoreticè & Practicè | Investigatum, perscrutatum & erutum. | Metallorum nimirum, Lapidum, Salum, | Sulphurum, Terrarum, quin & Acidularum, | Thermarum Naturam, Ortum, Differentias, Præ- | parationes selectissimas Usúsque multiplices | candidè sistens. | [ornament] | Basileæ Rauracorum, | [double rule] | Sumptibus & Typis Emanuelis & Joh. Georgii | König. | Bibliopol. | Anno M. DC. LXXXVII.

4<sup>o</sup>: )<sup>(4</sup> A-Aa<sup>4</sup> Bb<sup>2</sup>; 102ℓ.; [8], [1]-192, [4] p. Title in red and black. PAGE SIZE: 204 x 158 mm. VERY SCARCE.

REFERENCES: BL: [457.c.16.]. • CBN: [S5594]. • Sinkankas, *Gemology Bibliography*, 1993: no. 3515.

**2791. 2nd edition, 1703:** Emanuelis König, | [...3 lines of titles and memberships...] | Regnum | Minerale, | Generale Et Speciale | Quorum illud | Naturalem Et Artificialem | Mineralium productionem cum Parallelismo Alchy- | mico verorum Philosophorum, Tractatibus hucusque | ineditis, Commentario super Introitum Phi- | laethæ, & c. candidè sistit; | Olim sub Nomine Regni Quarti Sulphurum | Fixorum Metallicorum promissum. | Hoc verò | Metalla, Lapides, Salia, Sulphura, Terras, | quin & Acidulaas, Thermas, Phsicè, Chymicè, Practicè | recludit. | [ornament] | Basileæ, | [ornate rule] | Sumptibus & Typis Emanuelis König, Senioris, | Anno M. DCC. III.

4<sup>o</sup>: [22], 181, [3], 428, [4] p., frontispiece (portrait of König). Title in red and black.

VERY SCARCE. A much enlarged text that follows the format of the previous editions describes the realm of minerals. A fine portrait of König is used as a frontispiece.

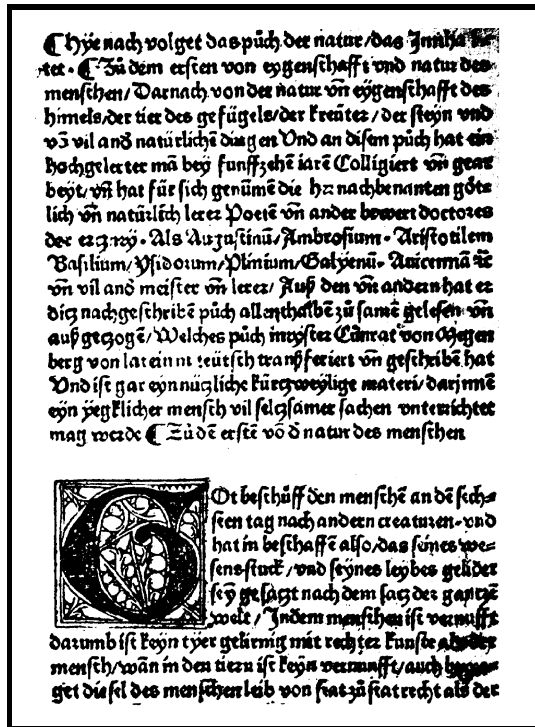
REFERENCES: LKG: III 51a. • Sinkankas, *Gemology Bibliography*, 1993: no. 3516. • Ward & Carozzi, *Geology Emerging*, 1984: no. 1294.

**KONRAD VON MEGENBERG.** (BORN: Megenburg (or Mainberg), near Schweinfurt, Germany, 2 February 1309; DIED: Regensburg, Bavaria, Germany, 14 April 1374) *German scientist, theologian & historian.*

The dates of birth and death are not absolutely certain, and Konrad himself calls his native place Megenberg. His father was probably a bailiff or overseer in the old castle of Mainberg. Conrad studied liberal arts in Erfurt, and then went to Paris, where he became a magister and studied and taught theology and philosophy. He remained in Paris from 1329 to 1337, then he went to Vienna where he was director of the St. Stephan School. In 1342, he transvered to Ratisbon (Regensburg), where he became a parish priest, then a canon of the cathedral.

He remained there until his death, and is buried in the Benedictine nunnery of Nieder-Münster in Regensburg.

REFERENCES: ADB: 16, ?? . • Ibach, H., *Dissertation: Konrad von Megenburg*, Leipzig, 1938. • Sarton, *Introduction*, 1928-52: ??, 817-21. • Sponheimer, M., *Dissertation: Konrad von Megenburg*, Blankenburg, 1923. • Zischka, *Allgemeines Gelehrten-Lexikon*, 1961: 348.



PUCH DER NATUR, 1475

2792. — German, 1475 [First edition].

Buch der Natur ... Augsburg, Johann Bämle, 30 October 1475.

2<sup>o</sup>: [a<sup>12</sup> b-h<sup>10</sup> j<sup>8</sup>; aa<sup>6</sup> bb-dd<sup>10</sup> ee-gg<sup>8</sup>; A-H<sup>10</sup>; AA<sup>10</sup> BB CC<sup>8</sup> DD EE<sup>10</sup> FF<sup>8</sup> GG<sup>6</sup>; \*2]; 292l., 28 lines per leaf, with large woodcut initials and 12 woodcuts, printed in Gothic type. Text is without foliation, pagination or signiatures. The signiature collation is taken from the BMC XV entry, and is probably based on the binder's manuscript notations in their copy. PAGE SIZE: 283 x 197 mm.

CONTENTS: The work has no title page. Folios 1r: "Das Register. | [Z]u dem ersten haltet dz puch jnn von | dem menschen in einer gemein. Darnach | ..."; 3r: Blank.; 3v: [Woodcut of a man between two doctors]; 4r: "Hye nach volget das puch der natur / das innhal= | tet. ¶ Zu dem ersten von eygensthaft vnd natur des | menschen / Darnach von der natur vñ eygensthaft des | himels / der tier des gefugels / der kreuter / der steyn vnd | vñ vil an' natürlichē dingen Vnd an diesem puch hat ein | hochgelerter mā beÿ funffzehē iarē Colligiert vñ gear | beÿt, vñ hat für sich genūmē die her nach genanten gōt= | lich vñ natürlich lerer Poetē vñ ander bewert doctores | der ercney. Als Augustinū / Ambrosium. Aristotilem | Basilium /

Ysidorum / Plinium / Galienū. Auicennā zc | vñ vil an' meister vñ lerer / Auf den vñ andern hat er | dicz nachgesthribē puch allenthalbē zū samē gelesen vñ | außgezogē / Welches puch meyster Cünrat von Megen | berg von latein in teütsth tranfferiert vñ geschribē hat | Vnd ist gar eÿn nützliche kürtzweÿlige materi / darjnnē | eÿn ÷gklicher mensth vil selczsamer sachen vnterrichtet | mag werde ¶ Zu dē erstē vō d' natur des mensthen."; 290r, colophon: "¶ Hie endet sich das buch der natur. Das hat | getruckt vñ volpracht hanns Bämle zū Aug= | spurg An mōntag vor aller heÿligen tag An= | no zc jn dem. lxxiv. jar. Deo gracias."; 292v, at end: "... das Capital hat .xxxj. pletter damit | endet sich das puch der natur got seÿ gelobt. Amen."

EDITIO PRINCEPS. Extremely rare. Printed at the Augsburg press of Johann Bämle [see note below]. Konrad composed this work in 1349-51 as a free translation of the *De Natura Rerum* of Thomas of Cantimpré, although Konrad thought the source text to be the product of Albertus Magnus' youth. It was apparently a popular early book around Augsburg, the city where all the incunabula editions were published. The Latin text is reordered somewhat in this German version, with some original material added.

Das Buch der Natur is divided as follows: I. Von dem Menschen in seiner gemainen Nature, 50 chapters, describes human anatomy, physiology and interpretation of character from physical signs and dreams. II. Von den Himeln und von den sibem Planēten, 33 chapters, describes astronomy and meteorology. III. Von den Tiern in ainer Gemain describes animals in general, including 69 chapters on quadrepeds, 72 on birds, 20 on the creatures of the sea (e.g., crocodile, seal, dolphin, hippopotamus, sirens), 29 on fishes, 37 on snakes, 31 on "worms" (i.e., insects, toads, frogs, snails, leeches, spiders, earthworms). IV. Von den Paumen, 84 chapters, describes trees. V. Von den Kräutern, 89 chapters, describes plants and herbs. VI. Von den edlen Stainen, 86 chapters, describes precious stones. VII. Von dem Gesmaid, 10 chapters, on various metals, including gold, silver, Gunderfai (electrum), copper, tin, lead, and iron, quicksilver, orpiment, and sulphur. VIII. Von den wunderleichen Prunnen, describes the wonderful properties of streams and waters and with human monstrosities. At the beginning of each book is an introduction describing the various classes.

Johann Bämle. (BORN: ; DIED: ) German printer. Bämle is known to have been in Rome at Christmas of 1450. He is also known as a scribe and rubicator as early as 1453 [Gutenberg-Jahrbuch, 1928, pp. 105 & 106]. His earliest book with a precise date was completed on the 22 April 1472 and his last was finished on the 13 April 1495.

REFERENCES: Arber, *Herbals, their Origin and Evolution*, 1986: 14. • BL. • BMC: 1, 27. • BMC XV: 2, 333 [IB 5665]. • Choulant, *Graphische Incunabeln*, 1858: 99-122, no. 1. • Goff: C-842 [5 copies]. • Hain, *Repertorium Bibliographicum*, 1826-38: no. \*4041. • Klebs, *Incunabula Scientifica*, 1938: no. 300.1. • Locy, W.A., "The earliest printed illustrations in natural history," *Science Monthly*, New York, 13 (1921), 238-58. • NUC: 303, 395-6 [NK 0251757]. • Osler, *Incunabula Medica*, 1923: no. 77. • Schramm, *Bilderschmuck der Frühdrucke*, 1922-36: 3, p. 14 & 25. • Schreiber, *Manuel de la Gravure*, 1893-1911: no. 3778. • Sudhoff, *Deutsche Medizinische Inkunabeln*, 1908: no. 60. (Bämle) BMC XV.

2793. 2nd edition, 1478: Buch der Natur ... Augsburg, Johann

# KONRAD VON MEGENBERG

Bämler, 19 August 1478.

2<sup>o</sup>: 292ℓ., 28 lines per leaf, with large woodcut initials and 12 woodcuts, printed in Gothic type. Text is without foliation, pagination or signatures. VERY RARE.

CONTENTS: The work has no title page. Folios 1r: “**¶** Das Register.”; 3v: [Woodcut of a man between two doctors]; 4r: “**¶** Hye nach volget das buch der natur/das jnnhal= | tet. **¶** Zu dem ersten von eygensthafft vñ natur des | menschen ...”; 292r, colophon: “**¶** Hie endet sich das buch der natur. Das hat | getruckt vñ volpracht Iohanns Bämler zů | Augspurg. An mitwoch vor Barthomei. | 1c jn dem .lxxvij. jare. Deo gracias.”

REFERENCES: Choulant, *Graphische Incunabeln*, 1858: 99-122, no. 2. • Goff: C-843 [3 copies]. • Hain, *Repertorium Bibliographicum*, 1826-38: no. \*4042. • Klebs, *Incunabula Scientifica*, 1938: no. 300.2. • NUC: 303, 395-6 [NK 0251758]. • Osler, *Incunabula Medica*, 1923: no. 141. • Schramm, *Bilderschmuck der Frühdrucke*, 1922-36: 3, 25. • Schreiber, *Manuel de la Gravure*, 1893-1911: no. 3778. • Sudhoff, *Deutsche Medizinische Inkunabeln*, 1908: no. 61.

**2794. 3rd edition, 1481:** Buch der Natur ... Augsburg, Johann Bämler, 20 August 1481.

2<sup>o</sup>: [a-i]10 k [12 m-t]10; 194ℓ., 1, 2 and 194 blank. On 4r there are 35 lines on the page. Large woodcut initials and 12 woodcuts, printed in Gothic type. Text is without foliation, pagination or signatures. The signature collation is taken from the BMC XV entry, and is probably based on the binder's manuscript notations in their copy. RARE.

CONTENTS: Folios 1 & 2: Blanks.; 3r: “**¶** Das Register | Zu dem ersten haltet daz buch jnn vonn dē menschen | in einer gemeyn ....”; 5r: “**¶** Zu dē erstē | von eygenschaft vñ natur des menschē. Darnach von der natur | vñ eygenschaft des hēms. der tier. des gefūgels. der krewtē. d' steyn. | vñ von vil anderen natürlichen dingē Vñ an disem buch hat ein hochge | lert man bey fünffzehnen jaren Colligiert vñ gearbeyt vñ hat fürsich ge | nōmen die hernach benaēten götlich vñ natürlich lerer Poeten vñ ander | bewert doctores d' erczney Als Augustinū. Ambrosiū. Aristotilē. Basi- | lium. Ysidoriū. Pliniū. Galienū. Auicennā 1c. vñ vil ander meyster vnd | lerer Auß den vñ anderen hat er dicz nachgeschriben buch allenthalben zů | samen gelesen vñ auß gezogen Welches buch meyster Cūrat von Me | genberg von lateyn in teütsch transferieret vnd geschriben hat Vñnd ist | gar ein nūtzliche kürzweilige materi darjnnē ein yeglich mensch vil selcz | samer sachen vñ d' richt mag werdē ...”; 193r, colophon: “**¶** Hie endet sich das buch der natur Das hat | getruckt vnd volbracht Hanns Bämler zů | Augspurg Am mōntag vor Sant Bartho- | lomeus tag. Anno 1c. jn dem .lxxxj. jar. | Deo gracias.”

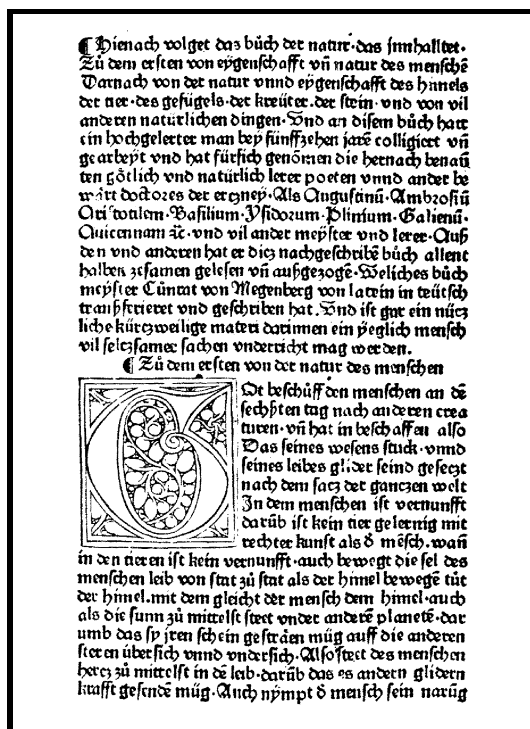
REFERENCES: BL. • BMC XV: 2, 336 [IB 5704]. • Choulant, *Graphische Incunabeln*, 1858: 99-122, no. 3. • Goff: C-844 [2 copies]. • Hain, *Repertorium Bibliographicum*, 1826-38: no. 4043\*. • Klebs, *Incunabula Scientifica*, 1938: no. 300.3. • NUC: 303, 395-6 [NK 0251760]. • Schramm, *Bilderschmuck der Frühdrucke*, 1922-36: 3, 26. • Schreiber, *Manuel de la Gravure*, 1893-1911: no. 3780.

**2795. 4th edition, 1482:** Buch der Natur ... Augsburg, Hans Schönsperger, May/June 1482.

2<sup>o</sup>: 238ℓ., with 34 or 35 lines per page. With woodcuts and large woodcut initials. In Gothic type. RARE.

CONTENTS: Folios 1r: “**¶** Das Register.”; 2r: Blank.; 2v: [Woodcut]; 3r: “[H]ienach volget das buch der natur das jnnhaltet | Zu dem ersten von aygenschaft vnd nature des | menschen. ...”; 238v: “Hie endet sich das buch der natur Das hat | getruckt vnd volbracht Hans schönsperger | burger czu Augspurg Am freytage vor dem | pfingst tag. Anno 1c jn dem .lxxxij. jare.”

REFERENCES: Choulant, *Graphische Incunabeln*, 1858: 99-122, no. 4.



BUCH DER NATUR, 1482 (FIFTH EDITION)

**2796. 5th edition, 1482:** Buch der Natur ... Augsburg, Anton Sorg, 24 July 1482.

2<sup>o</sup>: [a-f]10 g-i8 k-z A10 B6; 240ℓ., the first and last blank, with 33 and 34 lines to the page. Large woodcut initial and 12 woodcuts, printed in Gothic type. Text is without foliation, pagination or signatures. The signature collation is taken from the BMC XV entry, and is probably based on the binder's manuscript notations in their copy. PAGE SIZE: 262 x 182 mm.

CONTENTS: Folios 2r: “Das Register des büchs der natur.”; 3v: [Woodcut]; 4r: “**¶** Hienach volget das buch der natur ...”; 239v, colophon: “**¶** Hie endet sich das buch der natur | d3 getruckt vñ volendet hat Antho | nius Sorg. in der keyserlichen statt | Augspurg. An mittwochē nächst | vor sant Jacobs tag. do man zalt nach | cristi gepurt. M. ccc. Lxxxij. jar.”

RARE. Printed by Anton Sorg [see note below]. All the cuts, except those introducing the section on precious stones are reversed copies of those found in the editions of 1475 and 1481.

**Anton Sorg.** (BORN: ; DIED: ) German printer. Sorg's first printed book appeared in February, 1475. He continued to print until December, 1493.

REFERENCES: BL. • BMC XV: 2, 349 [IB 5945]. • Choulant, *Graphische Incunabeln*, 1858: 99-122, no. 5. • Goff: C-845. • Hain, *Repertorium Bibliographicum*, 1826-38: no. 4045\*. • Klebs, *Incunabula Scientifica*, 1938: no. 300.5. • Schramm, *Bilderschmuck der Frühdrucke*, 1922-36: 4, 51 & pl. 830-41. • Schreiber, *Manuel de la Gravure*, 1893-1911: no. 3782. (Sorg) BMC XV.

**2797. 6th edition, 1499:** Hie nach volget das buch der | natur. Innhallende zum ersten vō eigenschaft vnd | natur def menschen. Darnach von der natur vñ eigenschaft def hēms d' | tier. des gefūgels. der krewtē. d' stein. vñ von vil andern natürlichen dingē. | [Ornament].

2<sup>o</sup>: [\*2]; a8 b-z A-E6; 172ℓ., the last blank; There are 39 lines on leaf 5r. Woodcut at the beginning of each

section. PAGE SIZE: 268 x 189 mm. RARE.

CONTENTS: Folios 1r: Title.; 2r: "Das Register."; 3r & 3v: [Woodcuts].; 4r: "Hienach volget das buch d' natur. das jnnhaltet. ¶ Zū dem | ersten von eygenschaft vnd natur des mensche. Darnach vō | der natur vñ eygenschaft des hymels. Der tier. des gefügels | Der kreüter. Der stain Vnd von vil andern natürlichē dingē. Vnd an | disem buch hat ein hochgelerter man bey fünffzehen jarē Colligiert vñ | gearbeyt. vnnd hatt für sich genommen die hernach benaīten götlich | vnd natürlich lerer Poeten vnd ander bewert doctores d' ertzney. Als | Augustinū / Ambrosiū / Ambrosiū / Aristotilem / Basiliū / Isidorū / Plinium / Ga | lienū. Auicennā īc. Vnd vil ander meyster vnd lerer. Auß den vñ an= | dern hat er ditz nach geschriben buch allenthalben zū samen gelesen vñ | auß gezogen. Wöliches buch meyster Cūrat von Megenberg von | latein in teütsch tranffleriert vnd geschriben hat. Vnd ist gar ein nütz- | liche kurtzweylige materi darinnē ein yegklich mēsch seltzsamer sach | en vnderricht mag werden. ¶ Zū de ersten von d' natur des mensche."; 171v, colophon: "¶ Hie endet sich das buch der Natur. das hat getruckt | Hanns Schönsperger in d' keiserlichen stat Augspurg | Als man zalte nach der geburr Cristī. M. ccc. xcix. jar."

REFERENCES: BL. • BMC XV: 2, 374 [IB 6412]. • Choulant, *Graphische Incunabeln*, 1858: 99-122, no. 6. • Goff: C-846 [3 copies]. • Hain, *Repertorium Bibliographicum*, 1826-38: no. 4046\*. • Klebs, *Incunabula Scientifica*, 1938: no. 300.6. • NUC: 303, 395-6 [NK 0251761]. • Schreiber, *Manuel de la Gravure*, 1893-1911: no. 3783.



NATURBÜCH, 1536

2798. 7th edition, 1536: [Contained within a border composed of woodcut illustrations of items from nature and two vignettes at the top and bottom:] Naturbüch/ Vonn | Nutz/ eigenschaft/ wun= | derwirkung vñnd Gebrauch aller Ge= | schöpf/ Element vñnd Creaturn/ Dem |

menschen zu güt beschaffenn. Nit allein | den ärzten vñnd kunstliebren/ Sondern | einem teden Hauszuatter inn seinem | hause nützlich vñnd lustig zuha= | ben/ Zulesen vñnd zuwissen. | [ornament] | Getruckt zu Franckenfurt am Meyn/ Bei | Christian Egenolff. | Cum Cæs. Maiestatis Priuilegio.

2<sup>o</sup>: [6], 66ℓ. (numbered I-LXVI). PAGE SIZE: 236 x 160 mm.

RARE. An abridgement of *Das Buch der Natur*.

REFERENCES: Choulant, *Graphische Incunabeln*, 1858: 99-122, no. 7. • NUC: 303, 395-6 [NK 0251768].

2799. 8th edition, 1540: [Contained within a border composed of woodcut illustrations of items from nature and two vignettes at the top and bottom:] Naturbüch/ Von | nutz/ eigenschaft/ wun | derwirkung vñnd Gebrauch aller Ge= | schöpf/ Element vñnd Creaturn// Dem | menschen zu güt beschaffen. Nit allein | den ärzten vñnd kunstliebren/ Sondern | einem ieden Hauszuatter iu seinem | hause nützlich vñnd lustig zu ha= | ben/ Zulesen vñnd zu wissen. | [ornament] | ¶ Getruckt zu franckenfurt am Meyn/ Bei | Christian Egenolff. | Cum Cæs. Maiestatis Priuilegio.

2<sup>o</sup>: [6], 66ℓ. (numbered I-LXVI). The title page border is very similar, though not exactly like, the 1536 edition.

RARE. Reprint of the 1536 text.

REFERENCES: Choulant, *Graphische Incunabeln*, 1858: 99-122, no. 7. • NUC: 303, 395-6 [NK 0251770].

2800. 1861: Das | Buch Der Natur | Von | Konrad Von Megenberg. | Die Erste Naturgeschichte In | Deutscher Sprache. | Herausgegeben | von | Dr. Franz Pfeiffer, | [...4 lines of titles and memberships...] | [wavy rule] | Verlag von Karl Aue in Stuttgart. | MDCCCLXXL.

8<sup>o</sup>: [i]-lxxii, [2], [1]-807, [1] p. PAGE SIZE: 202 x 128 mm.

CONTENTS: [i-ii], Title page, verso "Druck der k. Hofbuchdruckerei Zu Guttenberg in Stuttgart."; [iii], Dedication to Joseph Diemer and Anton Ruland.; [iv], Blank.; [v]-lii, "Einleitung."—dated September 1861.; [liii]-lxii, "Inhaltsverzeichniss."; [1 pg], Sectional title page, "Das Buch Der Natur."; [1 pg], Blank.; [1]-494, Text of the Buch der Natur.; [495]-550, "Anmerkungen."; [551]-802, "Wörterbuch."; 803-807, "Verzeichniss Einiger Synonyma | Aus Den | Lesarten Der Handschriften."; [1 pg], "Verbesserungen."

SCARCE. Edited by Franz Pfeiffer [see note below]. This is a critical edition with a long introductory essay about Megenberg, his writings, the *Buch der Nature* in manuscript and printed editions and this critical edition. An elaborate glossary (pp. 551-802) provides a good dictionary to terms that are unclear or obsolete.

Franz Pfeiffer. (BORN: 1815; DIED: 1868) *German germanist*.

[ BIOGRAPHY NEEDED ]

REFERENCES: BMC: 6, 13. • NUC: 303, 395-6 [NK 0251762]. (Pfeiffer) ADB. • DBA: I 950, 387-406. • *Encyclopaedia Britannica*, 11th edition. • WBI. • Wurzbach, *Biographisches Lexikon Österreich*, 1856-91.

2801. 1897: Das Buch der Natur, von Conrad von Megenberg. Die erste Naturgeschichte in deutscher Sprache. In neu-hochdeutscher Sprache bearbeitet und mit Anmerkungen versehen von Dr. Hugo Schulz, ... Greifswald, J. Abel, 1897.

8<sup>o</sup>: [i]-x, [1]-445, [1] p.

VERY SCARCE. Translation into modern German by Hugo Schulz [see note below] with few notes but a good index.

Hugo Schulz. (BORN: ; DIED: ) *German writer*.

[ BIOGRAPHY NEEDED ]

REFERENCES: NUC: 303, 395-6 [NK 0251765]. (Schulz)

## KOPP

**KOPECKÝ, Karel.** (BORN: Havlíčkův Brod, Czech Republic, 2 January 1852; DIED: Rychnov near Kněžnou, Czech Republic, 26 September 1920) *Czech mineralogist & botanist.*

Kopecký was from 1877 to 1910 a professor at the grammar school in Rychnov, where he taught natural science, mathematics, physics, geography, German, and folklore. He was an important botanist who developed a systematic classification scheme. He studied minerals, plants, birds, and hibernation in animals.

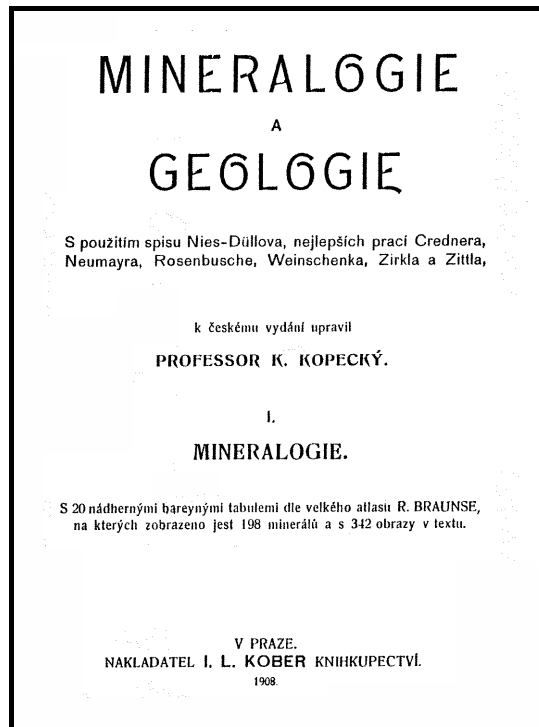
REFERENCES: Czech National Library (NKC). • Internet search. • Stafleu & Cowan, *Taxonomic Literature*, 1976-88: ??, ??.

### 2802. — Czech, 1908.

Příroda A Její Divy Vi. | [ornate rule] | [underlined:] Sešit 46. [white space] [underlined:] Cena 40 h. | [A scenic view of the czech contry side showing a house and a cat wrap around the left side of the next 6 lines of text.] Procházky Přírodou. | Vi. | Velký Přírodopis. | Minerály. | Sepsal | Prof. K. Kopecký. | S 20 nádhernými barevnými tabulemi dle velkého atlasu R. Braunse. | Nakladatel I. L. Kober Knihkupectví V Praze. | Vodičkova Ulice.

4°: ?? p., 20 chromolithographic plates derived from Reinhard Brauns' *Das Mineralreich* (1903). A study of mineralogy and geology richly illustrated with color lithographic plates, and written in the old Czech language. VERY SCARCE.

REFERENCES: NUC.



MINERALOGIE , 1908

### 2803. — Czech, 1908 [First edition].

Mineralogie | A | Geologie | S použitím spisu Niew-Düllowa, nejlepších prací Crednera | Neumayra, Rosenbusche, Weinschenka, Zirkla a Zittla. | K českému vydání upravil | Karel Kopecký, | I. | Mineralogie. | S 20 nádhernými barevnými tabulemi dle velkého atlasu R. Braunse, | na kterých zobrazeno jest 198 minerálů a s 342 obrazy v textu. | V Praze. | Nakladatel I. L. Kober Knihkupectví. | 1908.

4°: ?? p., 20 chromolithographic plates showing 198 mineral specimens, 342 illus. The plates are derived from Reinhard Brauns' *Das Mineralreich* (1903). A study of mineralogy and geology richly illustrated with color lithographic plates. VERY SCARCE.

REFERENCES: NUC.

**2804. Another edition, 1916:** Mineralogie | S použitím spisu Niew-Düllowa, nejlepších prací Crednera | Neumayra, Rosenbusche, Weinschenka, Zirkla a Zittla. | K Českému Vydání Upravil | Karel Kopecký, | professor gymnasia v Rychnově n. K. | S 343 Obrazy A 36 Přílohami. | [ornament] | Nakladatel I. L. Kober Knihkupec V Praze.

8°: [4], [1]-263, [1] p., 36 plates (black and white photos of geological subjects), 20 chromolithographic plates of mineral specimens, 343 illus. No date of publication, but the Czech National Library says [1916]. PAGE SIZE: 230 x 168 mm. VERY SCARCE.

CONTENTS: [2 pgs], Blank, verso series title page, "Malý Brehm | [rule] | Svazek v. | Podává | Karel Kopecký, | professor c.k. gymnasia v Rychnově n. K | [ornament] | Nakladatel I.L. Kober Knihkupectví V Praze."; [2 pgs], Title page, verso "Národní knihtiskárna I.L. Kober v Praze."; [18 leaves, showing 36 double-sided, black and white photographic plates of geological formations.]; [1]-256, Text.; [257]-263, "Abecední ukazovatel." (=index.); [1 pg], Blank.

REFERENCES: BL. • NUC.

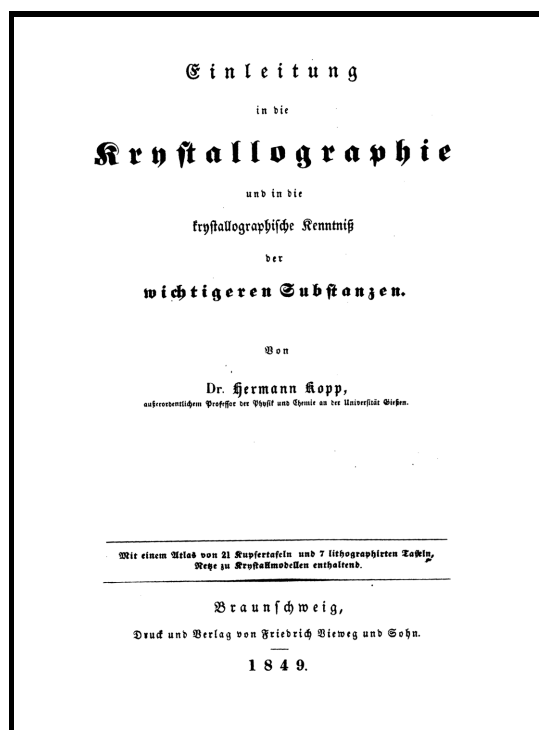


HERMANN KOPP

**KOPP, Hermann Franz Moritz.** (BORN: Hanau, Germany, 30 October 1817; DIED: Heidelberg, Germany, 20 February 1892) *German chemist & crystallographer.*

Kopp was a pupil of Leopold Gmelin [1788-1853] and Justus Liebig [1803-1873]. He became professor of chemistry at Giessen and Heidelberg in 1863. He is best remembered for his *Geschichte der Chemie* (4 vols., Braunschweig, 1843-7). In his researches, Kopp worked to deduce a relationship between the physical properties, the molecular weights and the chemical composition of compounds. In 1849, with Liebig, he founded the important journal, *Jahresbericht der Chemie*.

REFERENCES: ADB: 55, 820. • Barr, *Index to Biographical Fragments*, 1973: 144. • *Berichte der Deutschen chemischen Gesellschaft*: 25 (1892), 505-21 [by A.W. von Hofmann]. • DBA: I 693, 159-167; II 744, 111-119. • DSB: 7, 463-4 [by H.M. Leicester]. • *Encyclopaedia Britannica*, 11th edition. • *Great Chemists*: 583-600, portrait. • *ISIS*, 1913-65: 2, 28. • *Journal of the Chemical Society*: 63 (1893), 775-815 [by T.E. Thorpe]. • NDB: 12, 566-8 [by H. Walter]. • Poggendorff: 1, cols. 1304-5, 3, 742 & 4, 792. • Ruska, J., "Hermann Kopp, historian of chemistry," *Journal of Chemical Education*, 14 (1937), 3-12. • Schaedler, *Biographisch Handwörterbuch*, 1891: 62. • Speter, M., "Vater Kopp' bio-, biblio-, und psychographisches von und über Hermann Kopp (1817-1892)," *Osiris*, 5 (1938), 392-460. [Provides many personal details drawn from Kopp's letters to Liebig.]. • WBI. • *World Who's Who in Science*: 958.



Einleitung in die Krystallographie, 1949

**2805. — German, 1849** [First edition].

Einleitung | in die | Krystallographie | und  
in die | krystallographische Kenntniß | der |  
wichtigeren Substanzen. | Von | Dr. Herman  
Kopp, | außerordentlichen Professor der Physik  
und Chemie an der Universität Gießen. | [rule]  
| Mit einem Atlas von 21 Kupfertafeln und 7

lithographirten Tafeln, | Netze zu Krystallmodellen  
enthaltend. | [tapered rule] | Braunschweig, | Druck  
und Verlag von Friedrich Vieweg und Sohn. | [short  
rule] | 1849.

[TITLE PAGE OF ATLAS READS:]

XXI Kupfertafeln | zu der | Einleitung in die  
Krystallographie | und in die | krystallographische  
Kenntniß der wichtigeren Substanzen | von |  
Hermann Kopp. | [tapered rule] | Braunschweig, |  
Friedrich Vieweg und Sohn. | [rule] | 1849.

Text plus atlas. [Text] 8°: [i]-xii, [1]-346 p. [Atlas]  
Oblong 4°: [4] p., 28 plates (7 folding).

CONTENTS: [Text] [i-ii], Half title page, "Einleitung |  
in die | Krystallographie," verso blank.; [iii-iv], Title page,  
verso blank.; [v]-viii, "Vorrede."—dated July 1848.; [ix]-xii,  
"Inhaltsübersicht.;" [1]-346, Text.

[Atlas] [2 pgs], Title page, verso blank.; [2 pgs],  
Preliminary text.; [At end], 28 plates.

VERY SCARCE. Kopp, a German chemist at  
the University of Heidelberg, is best known for his  
work on physical chemistry and crystallography and  
publications on the history of chemistry. Prepared as a  
result of teaching courses in crystallography Kopp was  
able to prepare his *Einleitung in die Krystallographie*  
(Introduction to Crystallography), a well-known text  
on this subject. It is an introductory mathematical  
treatise of crystallography for students of chemistry and  
mineralogy and is now considered a classic work on  
the subject. The first section is an introduction that  
discusses the basics of crystallography, including axes,  
systems, crystal physics and crystal chemistry. Each  
of the seven crystal systems is then described in great  
detail. Kopp gives the description and measurement of  
the angles of a large number of natural and artificial  
crystals. The atlas includes several plates, especially  
noted for their cut-out folding crystal models, which  
were used to craft examples of crystals.

REFERENCES: Dana's 7th (Bibliography): 75. • *Freilich  
Sale Catalog*: no. 321. • NUC. • Whewell, *History of the  
Inductive Sciences*, 1858: p. 628.

**2806. 2nd edition, 1862:** Einleitung | In Die |  
Krystallographie | Und In Die | Krystallographische  
Kenntniß | Der | Wichtigeren Substanzen. | Von |  
Hermann Kopp. | [rule] | Zweite Auflage. | [rule] | Mit  
Einem Atlas Von 22 Kupfertafeln Und 7 Tafeln, Netze Zu  
| Krystallmodellen Enthaltend. | [rule] | Braunschweig,  
| Druck Und Verlag Von Friedrich Vieweg Und Sohn. |  
1862.

Text plus atlas. [Text] 8°: [i]-xiv, [1]-348 p. [Atlas]  
Oblong 4°: [2] p., 22 full page plates of crystal diagrams  
and 6 folded diagrams of crystal models.

CONTENTS: [Text] [i-ii], Half title page, "Einleitung |  
In Die | Krystallographie," verso blank.; [iii-iv], Title page,  
verso "Die Herausgabe einer Uebersetzung in englischer und  
französischer Sprache | ..."; [v]-ix, "Vorrede Zur Ersten  
Auflage.;" ix-x, "Vorrede Zur Zweiten Auflage."—dated  
January 1862.; [xi]-xiv, "Inhaltsübersicht.;" [1]-348, Text.

[Atlas] [2 pgs], Title page, verso preliminary text.;  
[At end], 22 plates.

VERY SCARCE. The first section is an introduction  
that discusses the basics of crystallography, including axes,  
systems, crystal physics and crystal chemistry. Each of the  
seven crystal systems is then described in detail.

REFERENCES: NUC.

## KOPP

### 2807. — German, 1843-7.

Geschichte der Chemie. | [rule] | Von | Dr. Hermann Kopp, | [rule] | Erster Theil. | Mit dem Bildnisse Lavoisier's | [tapered rule] | Braunschweig, | Druck und Verlag von Friedrich Vieweg und Sohn. | [short rule] | 1843.

4 vols. [VOL 1: 1843] 8°: [i]-xix, [1], [1]-455, [1] p., frontispiece (Lavoisier). [VOL 2: 1844] 8°: [i]-x, [1]-426 p., frontispiece (Berzelius). [VOL 3: 1845] 8°: [i]-xii, [1]-372 p., frontispiece (Davy). [VOL 4: 1847] 8°: [i]-xvi, [1]-448 p., frontispiece (Liebig).

CONTENTS: [Vol 1] [i-ii], Half title page, "Geschichte der Chemie. | Erster Theil," verso blank.; [Frontispiece, Lavoisier]; [iii-iv], Title page, verso blank.; [v], Dedication to Johann Heinrich Kopp.; [vi], Blank.; [vii]-xiv, "Vorrede."—signed Hermann Kopp, June 1843.; [xv]-xix, "Inhaltsübersicht des ersten Theils."; [1 pg], Blank.; [1], Sectional title page.; [2], Blank.; [3]-455, Text.; [1 pg], Blank.

[Vol 2] [i-ii], Half title page, "Geschichte der Chemie. | zweiten Theil," verso blank.; [Frontispiece, Berzelius]; [iii-iv], Title page, verso blank.; [v]-x, "Inhaltsübersicht des zweiten Theils."; [1], Sectional title page.; [2], Blank.; [3]-426, Text.

[Vol 3] [i-ii], Half title page, "Geschichte der Chemie. | Dritter Theil," verso blank.; [Frontispiece, Davy]; [iii-iv], Title page, verso blank.; [v]-xii, "Inhaltsübersicht des dritten Theils."; [1]-372, Text.

[Vol 4] [i-ii], Half title page, "Geschichte der Chemie. | Vierter Theil," verso blank.; [Frontispiece, Liebig]; [iii-iv], Title page, verso blank.; [v]-viii, "Vorwort zum vierten Theile."—signed Hermann Kopp, August 1846.; [ix]-xvi, "Inhaltsübersicht des Vierter Theils."; [1]-411, Text.; [412]-414, "Verbesserungen und Zusätze."; [415], Sectional title page, "Register."; [416], Blank.; [427]-433, "I. Namenregister."; [434]-448, "II. Sachregister."

VERY SCARCE. Unquestionably the most outstanding work of the nineteenth century, scholarly and well written. "The first volume presents a survey of chemical developments from antiquity to Kopp's time; the second is a study of the history of chemical operations, analytical chemistry, mineralogy, pharmacy, and alchemy and of the nature of chemical changes; volumes three and four are detailed histories of elements and compounds. The set is, even today, a valuable source of information regarding many phases of chemistry"—*Ihde*

REFERENCES: Bolton, *Bibliography of Chemistry*, 1893: p. 127. • *Ihde, Development of Modern Chemistry*, 1964: p. 761. • NUC.

### 2808. — German, 1869-75.

Beiträge | Zur | Geschichte Der Chemie. | [rule] | Von | Hermann Kopp. | [rule] | Mit Einer Tafel. | [rule] | Erstes Stück. | [rule] | Braunschweig, | Druck Und Verlag Von F. Vieweg Und Sohn. | 1869.

3 vols. [VOL 1: 1869] viii, 239, [1] p., one plate (folding). [VOL 2: 1869] [2], 243-530 p. [VOL 3: 1875] ix, 310 p.

VERY SCARCE. The erudite, comprehensive, important, and valuable supplement to Kopp's monumental history of chemistry, *Geschichte der Chemie* (4 vols., 1843-47), a work which has been called the "first complete, accurate, and readable history

of chemistry."—*DSB*. This supplement is divided into three parts, the second of which bears its own half-title page (following p. 240). For this reason, this work is sometimes described as three volumes in one, although it is actually comprised of only two imprints. The second imprint bears a special title page reading "Ansichten über die Aufgabe der Chemie und über die Grundbestandtheile der Körper bei den bedeutenderen chemikern von Geber bis G.E. Stahl. Die Entdeckung der Zusammensetzung des Wassers."

REFERENCES: Bolton, *Bibliography of Chemistry*, 1893: p. 127. • *Ihde, Development of Modern Chemistry*, 1964: p. 761. • NUC.



JOHANN H. KOPP

**KOPP, Johann Heinrich.** (BORN: Hanau, Germany, 17 September 1777; DIED: Hanau, Germany, 28 November 1858) *German physician & chemist.*

Kopp held an advanced degree in chemistry and was appointed professor extraordinary in 1843 and professor ordinary in 1853 in physics and chemistry at the University of Giessen.

REFERENCES: ADB. • DBA: I 693, 210-223; II 744, 128-132. • Hamberger & Meusel, *Gelehrte Teutschland*, 1796-1834. • Hirsch, *Biographisches Lexikon*, 1884-8. • Lambrecht & Quenstedt, *Catalogus*, 1938: 242. • Poggendorff: 1, cols. 1303-4. • Schaedler, *Biographisch Handwörterbuch*, 1891: 61-2. • WBI.

### 2809. — German, 1805.

Grundriss der chemischen Analyse mineralischer Körper von Johann Heinrich Kopp. Frankfurt am Main, In der Joh. Chr. Herrmannschen Buchhandlung, 1805

8°: [4], 100 p., 3 folding tables. A sketch on the chemical analysis of mineral bodies. VERY RARE.

REFERENCES: BL: [1035.b.33.(2.)]. • Bolton, Henry Carrington. "Ancient methods of filtration," *Popular Science Monthly*, 1880, 8 p: p. 587. • LKG: XI 28. • NUC: [no copy listed]. • Szabadváry, *History of Analytical Chemistry*, 1966: p. 152.

**2810. — German, 1810.**

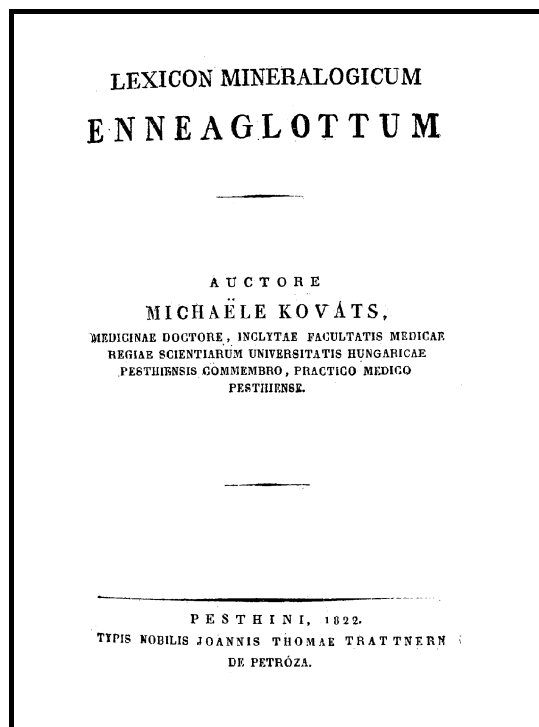
Mineralogische | Synonymik, | oder |  
alphabetische Uebersicht und Erklärung der |  
deutschen, französischen, englischen, italiä- |  
nischen und ungarischen oryktognostisch- |  
orologischen Nomenklatur. | [tapered rule] | Von |  
Johann Heinrich Kopp, | [ 10 lines of titles and |  
memberships] | \* | [tapered rule] | Frankfurt am |  
Main, 1810. | Bei Johann Christian Hermann.

8°:  $\pi^4$  A-K<sup>8</sup> L<sup>4</sup> M<sup>4</sup>; 88 $\ell$ .; [i]-vii, [1], [1]-168 p.  
PAGE SIZE: 220 x 130 mm.

CONTENTS: [i-ii], Title page, verso blank.; [iii],  
Dedication to Carl Caesar Leonhard.; [iv], Blank.; [v]-  
vii, Preface, not titled, signed J.H. Kopp August 1809.;  
[1 pg], Blank.; [1]-152, Text.; 153-168, "Anhang. |  
Versteinerungen."; Page 168, "Gedruckt bei G. Kittsteiner  
in Hanau."

VERY SCARCE. In this synopsis of mineralogical  
nomenclature, Kopp has brought together species  
names from the German, French, English, Italian and  
Hungarian languages and placed them in a single  
alphabetical list.

REFERENCES: BL: [726.f.24.]. • LKG: VII 9.



LEXICON MINERALOGICUM ENNEAGLOTTUM, 1822

**KOVÁTS, Michaële.****2811. — Latin, 1822.**

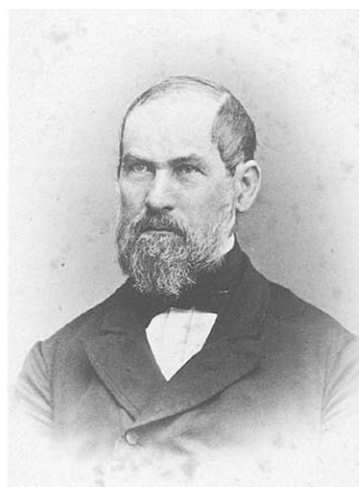
Lexicon Mineralogicum | Enneaglottum | [tapered  
rule] | Auctore | Michaële Kováts, | [...4 lines of titles

and memberships...] | [tapered rule] | [tapered rule] |  
Pesthni, 1822. | Typis Nobilis Joannis Thomae  
Trattnern | De Petróza.

4°: [i]-xvi, [1]-163, [1]; [i]-xvi, [17]-59, [1]; [i]-iv,  
[5]-44; [i]-iv, [5]-106, [2] p. PAGE SIZE: 215 x 135 mm.

CONTENTS: [i-ii], Title page, verso "Tres coit in Partes  
..."; [iii], Sectional title page for Pars I.; [iv], "Avia ...";  
[v]-[vi], Dedication to Révay Nepom. János.; [vii-viii], "Az  
Ásványévtár Szerzőjéhez."; [ix]-xiv, "Praefatio."; xv-xvi,  
Poems.; [1]-163, Text.; [1 pg], Blank.; [i-ii], Sectional title  
page for Pars II, verso " - - - dulce est altos intrce  
recessus, | ..."; [iii]-xvi, "Előszó."—dated 28 December  
1817.; [17]-59, Text.; [1 pg], Blank.; [i-ii], Sectional title  
page for Pars III, verso "Post Studium Recti, ..."; [iii]-iv,  
"Vorrede."; [5]-44, Text.; [i-ii], Sectional title page, verso  
"Vivitur omnigenis ..."; [iii]-iv, "Proemium."; [5], "Lexicon  
Mineralogicum | Gallico Latinum."; [6], Blank.; [7]-46,  
Text.; [47], "Lexicon Mineralogicum | Anglico Latinum.";  
[48], Blank.; [49]-60, Text.; [61], "Lexicon Mineralogicum |  
Italico Latinum."; [62], Blank.; [63]-75, Text.; [76], Blank.;  
[77], "... | Russico Latinum."; [78], Blank.; 79-83, Text.;  
[84], Blank.; [85], "... | Svecio Latium."; [86]-92, Text.;  
[93], "... Danico Latinum."; [94], Blank.; [95]-100, Text.;  
101-106, "Előfizető és Aláíró Fő-Méltóságu, Méltóságas, |  
..."; [2 pgs], "A' Szerzőnek kijött Munkái."

VERY SCARCE. A multilingual dictionary of  
mineralogy and related subjects principally for Latin,  
Hungarian, and German. A section at the end provides  
a dictionary for mineralogy in the English, Italian,  
Russian, Swedish and Danish languages. The work is  
divided into 4 sections. The first lists the terms in  
Latin with their Hungarian and German equivalents.  
The second lists the terms in Hungarian followed by  
Latin and German, while the third lists the words in  
German followed by Latin and Hungarian. The fourth  
section then provides a mineralogical lexicon to Latin  
for the English, Italian, Russian, Swedish and Danish  
languages.



KRANTZ

**KRANTZ, Adam August.** (BORN: Neumartk, Schlies-  
sen, Germany, 6 December 1808; DIED: Berlin,  
Germany, 30 March 1872) *German mineral dealer &  
mineralogist.*



## KRANTZ

Krantz studied "Geognosie" at the Freiberg Bergakademie earning a Ph.D. In 1833, he founded in Freiberg the "Mineralien-Geschäft von Krantz" (Krantz' Mineral Shop). In 1837, he moved the firm to Berlin, and in 1850, he reestablished the company in Bonn, changing its name to "Rheinisches Mineralien Comptoir." In 1841, Krantz made the first geological map of Elba, Italy, and in 1866, he purchased the mineral business of the Paris dealer, Saemann. By July 1847 Krantz was able to claim in an advertising brochure that he had 750 different mineral species in stock with between 2500 and 3000 varieties and localities represented. In addition, various rock types and fossils could also be supplied. Krantz' personal mineral collection of about 14,000 specimens was acquired by the University of Bonn in 1872.

The Krantz mineral dealing firm survives to the current time. After the founder Adam August died in 1872, his son-in-law, Captain Theodor Hoffmann managed the company for 16 years, but he knew nothing of mineralogy. In 1888, the son of the founder, the mineral dealer and crystallographer FRIEDRICH LUDWIG ROBERT KRANTZ, took over management of the firm. Under his leadership the firm of Krantz became famous worldwide. He died in 1926. His wife Olga and nephew Fritz took over the business. Olga operated the firm through World War II by trading goods for specimens. For example, sewing material for fossil cronoids. The nephew, Fritz Krantz, managed the firm from 1948 until 1974. His interests were primarily palaeontological. His daughter, Renate Krantz, who had a degree in geology, managed the firm from 1974 until her death in 1995. In turn her daughter, Ursula Müller-Krantz manages the firm to the present time.

REFERENCES: Cleavelly, *World Palaeontological Collections*, 1983: p. 176. • DBA: II 751, 440. • *Geological Magazine*: 9, (1 December 1872), p. 240. • Internet search. • Krantz, August., *Notice sur l'état actuel de l'établissement de M. Auguste Krantz, Marchand Natrualiste, Brüderstrasse 39, A Berlin*. [Paris, 1847]. 4 p. [Early advertising pamphlet giving a description of the Krantz mineral and fossil dealership]. • *Mineralogical Magazine*: 21 (1872), 239-40. • Poggendorff: 3, 747. • Schiffner, *Alter Freiburger Bergstudenten*, 1935-40: 1, 184. • WBI.

### 2812. — German, 1843 [Sale catalog].

Mineralien-Sammlung | zusammengestellt | nach dem System des Prof. Naumann und dem | Lehrbuch der Mineralogie, von Dr. E. Leyde. | (Berlin bei Mittler.) | von | A. Krantz, | Brüderstrasse No. 39. | [rule] | Preis 8 Thaler. | [tapered rule] | Berlin, 1843. | Druck von H.S. Hemann, Post-Str. No. 23.

8°: [1]-22 p. PAGE SIZE: 208 x 128 mm.

CONTENTS: [1-2], Title page, verso blank.; [3]-22, Text.

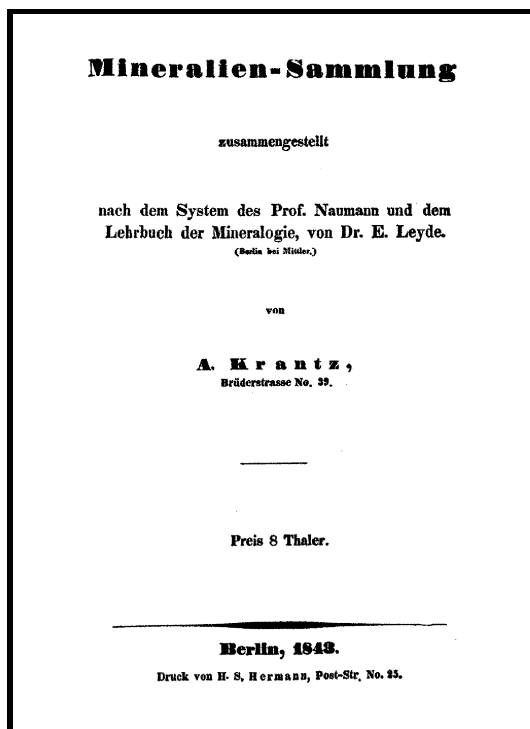
VERY RARE. An early (perhaps first?) sale catalog describing a mineral collection of 144 specimens arranged in the 7 classes of Carl Naumann's classification system from this famous mineral dealing firm.

### 2813. — German, 1845.

Preis-Verzeichniss vorrätthiger Mineralien, Gebirgsarten und Versteinerungen in der Mineralien-Handlung. [Berlin, 1845].

4°: 2l. PAGE SIZE: 410 x 245 mm.

VERY RARE. Overall a rare and early sales catalog of this famous German mineral dealer when he was still



MINERALIEN-SAMMLUNG , 1843

located in Berlin.

2814. 8th edition, 1866: Verzeichniss von verkauflichen Mineralien, Gebirgsarten, Versteinerungen, Gypsmodellen seltener Fossilien und Krystall Modellen in Ahornholz im Rheinischen Mineral-Comptoir. Achte Auflage. Bonn, Georgi, 1866.

8°: ?? p. RARE.

REFERENCES: NUC: 305, 340 [NK 0281636].

2815. Catalog, 1875: Verzeichniss von verkäuflichen Mineralien, Gebirgsarten, Versteinerungen Gypsmodellen seltener Fossilien und Krystallmodellen in Ahornholz im Rhein. Mineralien-Comptoir ... August Krantz ... Bonn, Georgi, 1875.

8°: iv, 52 p. RARE.

### 2816. — German, c1885 [Katalog Nr 1].

[Four lines contained within an oval border:] Gegründet 1838 | Preisgekrönt: Mainz 1842 • Berlin 1844 • London 1854 | Paris 1855 • London 1862 • Paris 1867 • Sydney 1879 | Bologna 1881 • Amsterdam 1885 | Rheinisches | Mineral-Contor | Dr A. Krantz | In | Bonn | [ornate rule] | [Within a single rule, oval border:] Katalog Nr 1 | Mineralien | [ornate rule] | Es stehen ferner auf Wunsch kostenfrei zur Verfügung: | Katalog Nr 2: Petrafacten | " " 3: Gypsmodelle von Petrafacten | " " 4: Gesteine und Dünnchliffe.

8°: VERY SCARCE.

2817. Katalog Nr 4, c1904: Petrographie: Gesteine, Dünnchliffe, Diapositive, Petrographische Apparate ... Katalog Nr. 4. 5. Auflage. [Bonn, C. Georgi Universitäts

Bruchdruckerei], pref. 1904

8°: x, 197 p. VERY SCARCE.

**2818. Katalog Nr 20, c1908:** Geschäftsgündung 1833 | [rule] | Preisgekrönt: | [...4 lines of prizes...] | [wavy rule] | Dr F. Krantz | Rheinisches Mineralien-Contor | Fabrik und Verlag mineralogischer | und geologischer Lehrmittel | in | Bonn a. Rh. | [ornate rule] | Katalog Nr. 20 | Mineralogisch-geologischer | Schul-Katalog | = mit zahlreicher Abbildungen. =

8°: [i]-vi, [1]-71, [1] p., 44 illus. Printed wraps. PAGE SIZE: 224 x 140 mm. RARE.

**2819. Katalog Nr 18, 1913:** Allgemeiner mineralogisch-geologischer Lehrmittel-Katalog für den Schulgebrauch. Katalog Nr. 18. 1. Teil = Catalogue Général pour l'usage des Écoles Minéralogie et Géologie=General Catalogue for the use schools Mineralogy and Geology. 2. Auflage. Bonn, Verlag mineralogischer und geologischer Lehrmittel, 1913.

8°: xxi, 240 p., illus. VERY SCARCE.

### Crystal Model Catalogs

**2820. — German, 1862** [First edition].

Catalog einer Sammlung von 675 Modellen in Ahornholz zur Erläuterung der Krystallformen der Mineralien. Bonn, 1862.

8°: 50ℓ. The introduction is signed August Krantz. VERY RARE.

REFERENCES: *Katalog Bergakademie Freiberg*, 1879: p. 369 [VI. 947.].

**2821. 2nd edition, 1880:** Catalog einer Sammlung von 743 Modellen in Birnbaumholz zur Erläuterung der Krystallformen der Mineralien ausgegeben vom Rheinischen Mineralien-Comptoir Dr. A. Krantz in Bonn. 2., von Prof. P. Groth in Strassburg rev. und verm. Aufl. des älteren Catalogs von 675 Modellen. Bonn, Rheinischer Mineralien-Comptoir Krantz, 1880.

8°: 50 p.

VERY RARE. Written by Paul Groth.

**2822. Abridged edition, 1895:** Katalog einer Sammlung von 396 Modellen in Birnbaumholz enthaltend sämtliche in Prof. P. Groth's Lehrbuch der physikalischen Krystallographie (3.Aufl., Leipzig 1895) abgebildeten Krystallformen und Combinationen zusammengestellt von P. Groth. Bonn, Verlag Mineralogischer und Geologischer Lehrmittel, c1895.

8°: iv, 24 p.

VERY RARE. Written by Paul Groth. Catalog to a smaller selection of wooden crystal models sold through the firm of Krantz.

**2823. 3rd edition, 1902:** Sammlung von 928 Modellen in Birnbaumholz zur Erläuterung der Krystallformen der Mineralien. Dritte Auflage. Von Prof. C. Hintze in Breslau revidirt und vermehrte Auflage des älteren Katalogs des Krantz'schen Mineralien-Contors in Bonn. Bonn, 1902.

8°:

VERY RARE. This collection of Krystallmodellen is increased of 675 pieces in the first edition (1862) on 928. Became since the appearance of the 2. Edition in the last 14 years again described minerals considers, at the same time however 150 older dispensable appearing models drawn in, so that the Gesamtzahl remained limited to 928 pieces. Newly described Krystalltypen of long-known minerals was consulted only in very limited Maasse. For each number like in former times under indication of the literature the surfaces in NAUMANN' and MILLER' manners were enumerated. A register facilitates the use of the in certain respects useful and comfortable compilation. —Max Bauer.

REFERENCES: *Centralblatt für Mineralogie*: 1902, p. 663 [by M. Bauer].

### KRATKAIA OPIS' MINERAL'NOMU KABINETU.

Краткая Опись | Минеральному Кабинету | Императорской Академии Наукъ, | По Новому Онаго Расположенію | бѣ 1820 году. | [ornate rule] | При Императорской Академии Наукъ | 1821. (St. Petersburg, 1821).

See: Severgin, Vasilii Mikhailovich.

**KRAUS, Edward Henry.** (BORN: 1 December 1875; DIED: 3 February 1973) *American mineralogist & crystallographer.*

Kraus was a professor at Syracuse University, New York (1901-1902) and the University of Michigan (1904-45). He was a pioneer in the study of variations in the hardness of diamond. He also wrote on the occurrences of minerals, crystallographic forms and apparatus.

REFERENCES: ABA: I 920, 208-210. • *American Mineralogist*: 59 (1974), nos. 3-4, 402-4, portrait. • *American Mineralogist*: 40 (1955), nos. 11-12, 945-51, portrait. • *Fortschifter Mineralogie*: 51 (1973), no. 4, 1-2, portrait. • *Herringshaw's National Library of American Biography*. • Sarjeant, *Geologists*, 1980: 2, 1485. • WBI.

**2824. — English, 1906** [First edition].

Essentials | —Of— | Crystallography | By | Edward Henry Kraus, Ph.D. | Junior Professor of Mineralogy in the | University of Michigan | [ornament] | With 427 Figures | [rule] | George Wahr, Publisher | Ann Arbor, Mich. | 1906.

8°: [i]-x, [1]-162 p., 427 illus. Pages 150 to 156 are double-page tables showing the elements of symmetry for the 32 crystal classes. PAGE SIZE: 218 x 142 mm.

CONTENTS: [i-ii], Title page, verso "Copyright, 1906 | ..."; iii, "Preface."—signed Edward H. Kraus, June 1906.; [iv], Blank.; v-vii, "Table of Contents."; [viii], Blank.; [Errata slip tipped in.]; ix-x, "Bibliography."; [1]-149, Text.; 150-156 (double-page tables), "Tabular Classification | Showing The Elements Of Symmetry | And The Simple Forms | Of The Thirty-Two Classes Of Crystals."; 157-162, "Index."

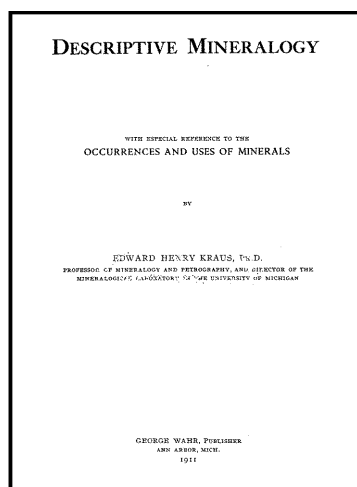
SCARCE. This text is designed for the beginner and is aimed to present the essential factors of geometrical crystallography, from the standpoint of symmetry. Each of the thirty-two possible classes of symmetry are described, even though several of the classes have never been observed in the mineral kingdom. No treatment on the projection or measurement of crystals is given, and no theories of structural crystallography are provided. However, the text is heavily illustrated to enforce points described in the text. Overall this is one of the best beginner texts ever published in crystallography.

REFERENCES: Dana's 7th (Bibliography): 75. • *USGS Library Catalog*.

**2825. — English, 1911** [First Edition].

Descriptive Mineralogy | With Especial Reference To The | Occurrences And Uses Of Minerals | By | Edward Henry Kraus, Ph.D. | [...2 lines of titles and memberships...] | George Wahr, Publisher | Ann Arbor, Mich. | 1911.

8°: [i]-viii, [1]-334 p., illus. PAGE SIZE: 218 x 142 mm.



DESCRIPTIVE MINERALOGY, 1911

CONTENTS: [i-ii], Title page, verso "Copyright, 1907."; iii, "Preface."; [iv], Blank.; [v], "Table Of Contents."; [vi], Blank.; vii-viii, "Bibliography."; 1-318, Text.; 319-334, "Index."

VERY SCARCE. This textbook was designed by Kraus to help students who were taking his course in descriptive mineralogy at the University of Michigan. It is written in a simple language so that even a beginner could master the discipline.

**Sections:** Preface. Bibliography. Introduction. Elements. Sulphides and analogous selenium, tellurium, arsenic, antimony, and bismuth compounds. Oxides, hydroxides, and oxysulphides. Haloids. Nitrates, carbonates, manganites, and plumbites. Sulphates, chromates, molybdates, tungstates, and uranates. Aluminates, ferrites, borates, and so forth. Phosphates, arsenates, antimonates, vanadates, niobates, and tantalates. Silicates, including titanates, zirconates, and thorates. Organic compounds. Classification of minerals according to elements. Index.

REFERENCES: NUC. • *USGS Library Catalog*.

**2826. — English, 1911** [First edition].

Tables for the Determination of Minerals by Means of their Physical Properties, Occurrences and Associates. New York, McGraw-Hill Book Company, 1911.

8°: vii, 254 p.

VERY SCARCE. An uncommon reference for practical mineralogy, being an excellent identification book. Consists almost entirely of tables arranged according to the most easily distinguished physical characteristics, such as luster, color, hardness, etc.

A second, revised and enlarged edition appeared in 1930.

REFERENCES: NUC. • *USGS Library Catalog*.

**2827. — English, 1920** [First edition].

Mineralogy | An Introduction To The Study | Of | Minerals And Crystals | By | Edward Henry Kraus, Ph.D., Sc.D. | [...2 lines of memberships and titles...] | And | Walter Fred Hunt, Ph.D. | Professor Of Petrology, University Of Michigan |

First Edition | First Impression | McGraw-Hill Book Company, Inc. | New York: 370 Seventh Avenue | London: 6 & S Bouverie St., E.C. 4 | 1920.

8°: [i]-xiv, 1-561, [1] p., 696 illus. PAGE SIZE: 228 x 146 mm.

CONTENTS: [i-ii], Half title page, "Mineralogy | An Introduction To The Study Of | Minerals And Crystals," verso blank.; [iii-iv], Title page, verso "Copyright, 1920, ..."; v, "Preface."—dated August 1920.; [vi], Blank.; vii, "Contents."; [viii], Blank.; ix-xiv, "Introduction."; 1-365, Text.; 366-371, "Glossary."; 372-378, "Tabular Classification Showing the Elements of Symmetry..."; 379-547, "Tables For The Determination Of The 160 Minerals | Described In This Text By Means Of Their | Physical Properties, Occurrences, | And Associates."; [548], Blank.; 549-561, "Index."; [1 pg], Blank.

SCARCE. An excellent and popular textbook of mineralogical science that includes nuggets of historical perspective. Illustrations, particularly in the crystallography section show line drawings and photographic reproductions of wooden crystal models to depict the various crystal forms. A flaw in the text is the nonexistence of any bibliography or citation to older literature, which distinguished the textbook of Edward Dana.

One of the best textbooks in English. Treats crystallography, properties, polarizing microscope techniques, genesis, blowpiping, descriptions, precious stones, glossary, etc. Tables for the determination of 150 minerals by physical properties, occurrences and associated minerals.

**Sections:** Introduction (p. ix). I. Crystallography (p. 1). II. Cubic System (p. 14). III. Hexagonal System (p. 30). IV. Tetragonal System (p. 55). V. Orthorhombic System (p. 65). VI. Monoclinic System (p. 72). VII. Triclinic System (p. 78). VIII. Compound Crystals (p. 82). IX. Physical Properties (p. 88). X. The Polarizing Microscope (p. 99). XI. Chemical Properties (p. 125). XII. Formation and Occurrence of Minerals (p. 131). XIII. Qualitative Blowpipe Methods (p. 145). XIV. Descriptive Mineralogy (p. 186). 1. Elements.). 2. Sulphides, Arsenides, and Sulpho-minerals.). 3. Oxides and Hydroxides.). 4. Haloids.). 5. Nitrates, Carbonates, and Manganites.). 6. Sulphates, Chromates, Molybdates, Tungstates, and Uranates.). 7. Aluminates, Ferrites, and Borates.). 8. Phosphates, Columbates, and Vanadates.). 9. Silicates and Titanates.). XV. Gems and Precious Stones (p. 329). XVI. Classification of Minerals According to Elements (p. 339). Glossary (p. 366). Tabular Classification of the Thirty-two Classes of Symmetry (p. 372). Tables for the Determination of Minerals (p. 379). Index (p. 549).

**Other editions:** 2nd edition, 1928. ix, 604 p., 766 illus. 3rd edition, 1936. ix, 638 p., 812 illus. 4th edition, 1951. ix, 644 p., 735 illus.

REFERENCES: NUC. • *USGS Library Catalog*.

**KRAUSE, F.M.**

**2828. — English, 1896** [First edition].

An Introduction To The Study | Of | Mineralogy | For Australian Readers | By | F.M. Krausé, F.G.S., F.L.S., Lond. | [...3 lines of titles and memberships...] | George Robertson & Company | Melbourne, Sydney, Adelaide, Brisbane, and London | 1896.

8°: 352 p., illus.

VERY SCARCE. A mineralogical work written about the localities and occurrences of mineral species in Australia. "In my capacity as curator of the Ballarat Museum I have had occasion to analyze and determine mineral specimens from every part of Australasia, while in the course of my professional visits to the mining fields I have personally examined into the mode of occurrence of most of the minerals herein described." — F.M. Krause.

#### KRAUSE, J.C.

... Veterum e Mineralogia Aphorismi ... (Halis Magdeburgicis, 1799).

See: Schmieder, Karl Christoph.

#### KRÄUTERMANN, Valentin.

See: Hellwig, Christoph Von.

**KREFFT, Johann Ludwig (Louis) Gerard.** (BORN: Brunswick, Germany, 17 February 1830; DIED: Sydney, Australia, 19 February 1881) *German zoologist & museum curator.*

Krefft attended St Martin's College, Brunswick, in 1834-45 and then worked in a mercantile firm in Halberstadt. In 1850 he migrated to the United States and in November 1852 reached Victoria, Australian. He worked in various goldfields until 1857 when he went on an expedition to the Lower Murray and Darling Rivers. He built a large natural history collection and was employed by the National Museum, Melbourne, to catalogue it. He eventually was appointed curator of the museum. Theft of several gold specimens in 1873 led to his dismissal, however. Subsequent legal action, forced Krefft into bankruptcy.

REFERENCES: *Australian Dictionary of Biography*: 5, p. 42-44. • Internet search.

**2829. Collection catalog, 1878:** Catalogue of the Minerals and Rocks in the Collection of the Australian Museum. Sydney, [Australian Museum], 1878.

8°: 116, [2] p.

VERY SCARCE. Catalog listing the minerals and rocks contained in the Australian Museum, Sydney, Australia.

REFERENCES: Ferguson, *Bibliography of Australia*, 1941-69. • NUC.

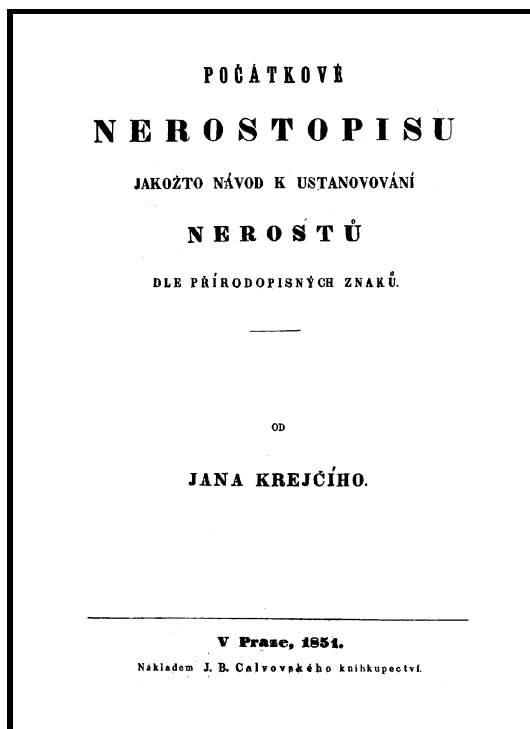
**KREJČÍ, Jan.** (BORN: Klattau, Bohemia, Czech Republic, 28 February 1825; DIED: Prague, Czech Republic, 8 January 1887) *Czech crystallographer, mineralogist & naturalist.*

For a time, Krejčí was an instructor of natural history at the Ober-Realschule in Prague as well as custodian of the mineral collection of the Bohemian Museum. Later, he became a professor at the Karl-Ferdinand University in Prague. He was a member of the Prague Academy of Science.

REFERENCES: *Casopis pro Mineralogii a Geologii*: 5 (1960), 489-92, portrait, and 7, 446-9, 2 portraits [by R. Kettner]. • DBA: I 707, 171-177. • *Neues Jahrbuch für Mineralogie, Geologie und Paläontologie*: 1888, vol. 1, p. 1-6 [by F.Katzer]. • *Österreich Biographisches Lexikon*. • Poggendorff: 1, col. 1317 & 3, 749-50. • Sarjeant, *Geologists*, 1980: 2, 1487. • *Verhandlungen Geologischen Reichsanstalt*, Wien: 1887, p. 275-6 [by G.C. Laube]. • Wurzbach, *Biographisches Lexikon Österreich*, 1856-91.

#### 2830. — Czech, 1851.

Počátkové | Nerostopisu | Jakožto Návod K Ustanovování | Nerostů | Dle Přírodopisných Znaků. | [rule] | Od | Jana Krejčího. | [rule]



POČÁTKOVÉ NEROSTOPISU, 1851

| V Praze, 1851. | Nákladem J.B. Calvovského knihkupectví.

8°:  $\pi^4$  1-118; 92 $\ell$ .; [ii]-vi, [2], [1]-157, [1], [I]-XVII, [1] p. PAGE SIZE: 220 x 140 mm.

CONTENTS: [i-ii], Title page, verso "Rychlotisk Jana Spurného."; [iii], Dedication.; [iv], Blank.; [v]-vi, Preface, dated 1851.; [1 pg], "Obsah svazku prvního" [=table of contents].; [1 pg], Blank.; [1]-157, Text.; [1 pg], Blank.; [I]-X, "Přehled soustavního Názvosloví."; [XI]-XVII, "Rejstřík jmen."; [1 pg], Blank.

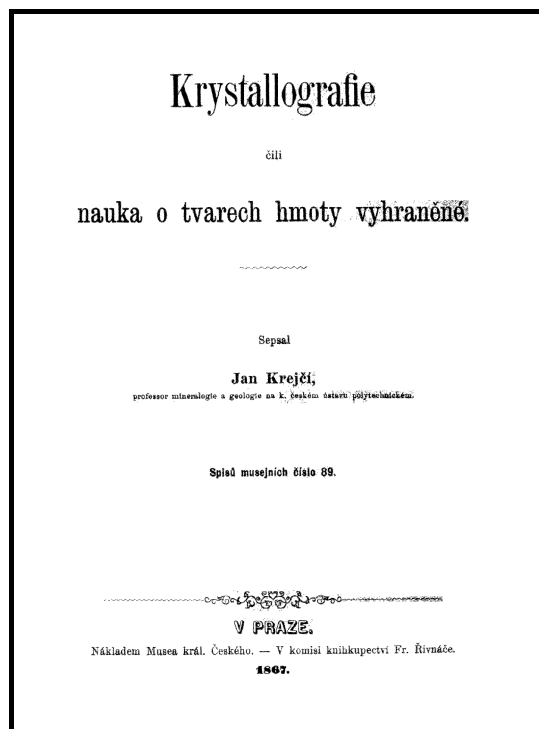
SCARCE. A text book of crystallography.

#### 2831. — Czech, 1867.

Krystallografie | čili | nauka o tvarech hmoty vyhraněné. | [wavy rule] | Sepsal | Jan Krejčí, | professor mineralogie a geologie na k. českém ústavu polytechnickém. | Spisů musejních číslo 89. | [ornate rule] | V Praze. | Nákladem Musea král. Českého. — V komisi knihkupectví Fr. Řiváče. | 1867.

8°: 264 p., 390 illus. PAGE SIZE: 145 x 210 mm.

VERY SCARCE. The book is divided into two parts. Part I (pp. 1-197) is devoted to morphologic and descriptive crystallography including a chapter describing the measurement of crystals (pp. 192-197). Krejčí uses the old Czech names for crystallographic groups (e.g. "stejnoklonná" = hexagonal, while the more recent Czech name is "hexagonální" or "esterecná"). Part II (pp. 198-264) is devoted to a history of crystallography from ancient



KRYSTALLOGRAFIE, 1867

Greece up to the time of W.H. Miller of the mid-nineteenth century.

REFERENCES: Personal communication: [Petr Sztacho, 2002-3].

**2832. 1879:** Krystallografie | čili | nauka o tvarech hmoty vyhraněné. | [rule] | Sepsal | Jan Krejčí, | profesor mineralogie a geologie na k. českém ústavu polytechnickém ústavu. | (Mineralogie. První část.) | [ornament] | V Praze. | Nakladel: Slavík & Borový. | 1879.

8°:  $\pi^2$  1-12<sup>8</sup> 134; 102 $\ell$ .; [4], [1]-199, [1] p., 341 text illus. PAGE SIZE: 212 x 136 mm. RARE.

CONTENTS: [2 pgs], Title page, verso "Knihtiskárna: J. Otto v Praze."; [2 pgs], "Předmluva." [=preface], dated 1876.; [1]-199, Text.; [1 pg], Blank.

**2833. German transl., 1886:** Elemente | der | Mathematischen Krystallographie | in | Neuer Leichtfasslicher Darstellung. | Nach Den Vorträgen | von | Dr. Johann Krejčí | Professor An Der K.K. Böhm. Karl-Ferdinand'schen Universität In Prag. | Herausgegeben | von | Friedrich Katzer. | Prag. | Druck Von Dr. Ed. Grégr. — Selbstverlag. | 1886.

8°: 214 p., illus.

SCARCE. A textbook describing the mathematical elements of crystallography.

REFERENCES: BL: [7105.ee.12.]. • *Zeitschrift der Krystallographie*: **15** (1889), 639-40.

**KREUTZ, Stefan.** (BORN: Lwów, Poland, 6 June 1883; DIED: Kraków, Poland, September 1941) *Polish mineralogist, crystallographer & petrologist.*

Kreutz was the son of Szczęśny Kreutz, who had been professor of mineralogy at the University of Kraków. He was educated at the University of Vienna under F. BECKE, and in 1908 he worked under H.A. MIERS on the parallel growth of crystals. Afterwards, he became assistant to J. MOROZEWICZ professor of mineralogy at the University

of Kraków, succeeding him in 1919. Eventually, Kreutz was appointed director of the Mineralogical Institute of the Jagiellonian University, Kraków. His research was related to the relationship between optical properties and chemical composition, twinned crystals, and the amphibole group. He also wrote on Polish minerals and rocks. In 1941, under the German occupation of Poland, Kreutz with the other professors of the University was executed.

REFERENCES: Gawel, A. and Z. Wójcik, "Stefan Kreutz i jego prace nad ochroną zabytkowych obiektów geologicznych," *Prace Muzeum Ziemi*, no. 21 (1974), pt. 2, 173-209. [Describes Stefan Kreutz' efforts to preserve geological monuments.]. • Gawel, A., "Dwadziestcia lat Zakładu Mineralogicznego U.J. pod kierownictwem śp. prof. dr. Stefana Kreutza," *Rocznik Polskiego Towarzystwa Geologicznego (w Krakowie)*, **20** (1950), no. 1, 1-10. [History of the Mineralogical Institute of Jagiellonian University under the directorship of Stephan Kreutz.]. • *Mineralogical Magazine*: **28** (1947), no. 199, 204 [by L.J. Spencer]. • Poggendorff: **5**, 682, **6**, 1407-8, & **7b**, 2616-7. • *Polski Słownik Biograficzny*: **15**, 290-1 [by A. Gawel]. • *Rocznik Polskiego Towarzystwa Geologicznego (w Krakowie)*: **19** (1949), 73-89, portrait [by A. Gawel]. • Sarjeant, *Geologists*, 1980: **2**, 1488.

**2834. — German, 1915.**

Elemente Der Theorie | Der Krystallstruktur | Von | Stefan Kreutz | Privatdozent An Der Jagell Universität | Krakau | Mit 40 Textfiguren, 65 Projektionen Auf 18 Tafeln | Und 85 Stereogrammen | I. Teil | (Text Und Tafeln) | [ornament] | Leipzig | Verlag Von Wilhelm Engelmann | 1915.

[Text] 8°: viii, 174, [1] p., 40 illus. [Atlas] 4°: 18 plates, and 85 stereograms. VERY SCARCE.

REFERENCES: Dana's 7th (Bibliography): 75.

**KRIKENDE, Samuel.** (BORN: 1736; DIED: 1797) *German priest.*

REFERENCES: Baur, *Allgemeines historisches Handwörterbuch*, 1803. • DBA: **I** 710, 76-84. • Hamberger & Meusel, *Gelehrte Teutschland*, 1796-1834. • Jöcher, *Gelehrten-Lexikon*, 1750-51. • Meusel, *Verstorbenen Deutschen Schriftsteller*, 1802-16. • WBI.

**2835. — Latin, 1765.**

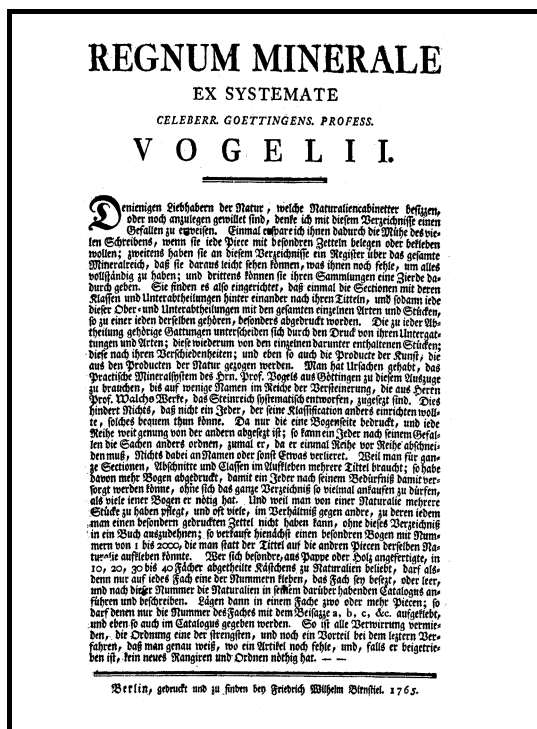
Regnum Minerale | Ex Systemate | Celeberr. Goettingens. Profess. | Vogellii. | [double rule] | [...41 lines of text...] | [double rule] | Berlin, gedruckt und zu finden bey Friedrich Wilhelm Birnstiel. 1765.

2°: A-K<sup>2</sup>  $\chi^4$ ; 24 $\ell$ .; no pagination. Text printed on the recto side of paper only. PAGE SIZE: 340 x 210 mm. uncut.

CONTENTS: A1r, Title page.; A1v, Blank.; A2r-K2r, Text.; K2v, Blank.;  $\chi$ 1r- $\chi$ 4v, Columns of numbers.

EXTREMELY RARE. In a work meant to be useful to mineral collectors, Krikende classifies the minerals and fossils according to Vogel's system as outlined in *Practisches Mineralsystem* (Leipzig, 1762). The species are arranged into classes and their subdivisions, and are printed in rows on one side of every page, so that they could be cut apart and affixed to the specimens. At the end are 4 leaves of numbers (1-1992) that could also be cut apart and affixed to specimens.

REFERENCES: *Allgemeine Deutsche Bibliothek*: **10**, pt. 1, 270. • *Berlinische Sammlungen*: **3**, 551. • *Erlanger gelehrte Beyträge*: 1766, 470. • Gatterer, *Mineralogischen Literatur*,



REGNUM MINERALS, 1765

1798-9: 1, 51. • *Leipziger gelehrte Zeitung*: 1766, 78. • LKG: XII 60b.

### KUECHLER, Johann Caspar.

De Viribus Mineralium et Mineralium Medicamentosis. [Praes. J.C. Kuchler]. (Leipzig, 1730).

See: Hebenstreit, Johann Ernst.

### KULMUS (Kulmo), Johann Adam.

REFERENCES: Poggendorff: 1, col. 1329.

### 2836. — Latin, 1727 [Dissertation].

Exercitatio Physica de Lapidibus. [Praeses:] Johannes Adamus Kulmus. [Resp.:] Christianus Fridericus Charitius. Gedani, Schreiber, 1727.

4°: A4; 4ℓ.

VERY RARE. Respondent, Christianus Fridericus Charitius.

Danzig, Univ., Phil. Diss., 1727

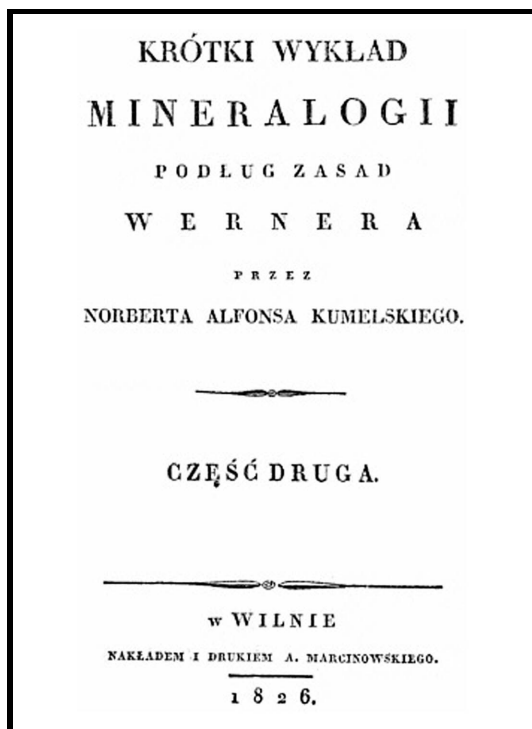
REFERENCES: BL: [B.391.(4.)]. • Gatterer, *Mineralogischen Literatur*, 1798-9: 2, 9. • LKG: XVI 77 & XVI 97. • NUC: [no copy listed].

**KUMELSKI, Norbert Alfons.** (BORN: Volhynia District, Poland, 6 June 1802; DIED: 1853) *Polish mineralogist*.

Kumelski completed his studies at the Mathematic-Physical and Medical Faculty of the Wilno University. From 1829 to 1833 he studied in Germany and Austria, then he moved to Warsaw not later than in 1841.

### 2837. — Polish, 1825-6.

Krótki Wykład | Mineralogii | Podług Zasad | Wernera | Przez | Norberta Alfonsa Kumelskiego.



KRÓTKI WYKŁAD MINERALOGII, 1825

| [ornate rule] | Część Pierwsza. | [rule]Z trzema tablicami. | [rule] | [ornate rule] | w Wilnie | Nakładem i Drukiem A. Mancinowzegego. | [ornate rule] | 1825.

2 parts. [Part 1: 1825] 8°: 56 p., 4 plates. [Part 2: 1826] 8°: 311 p.

VERY RARE. Kumelski wrote and published his *Krótki Wykład Mineralogii* (Short Course in Mineralogy) in two parts. He based the text on the published work of Werner.

REFERENCES: Internet search. • NUC: [no copy listed].

**KUNCKEL, Johann.** (BORN: Hütten, Schleswig-Holstein, Germany, 1630; DIED: Stockholm, Sweden, 20 March 1730) *German glassmaker*.

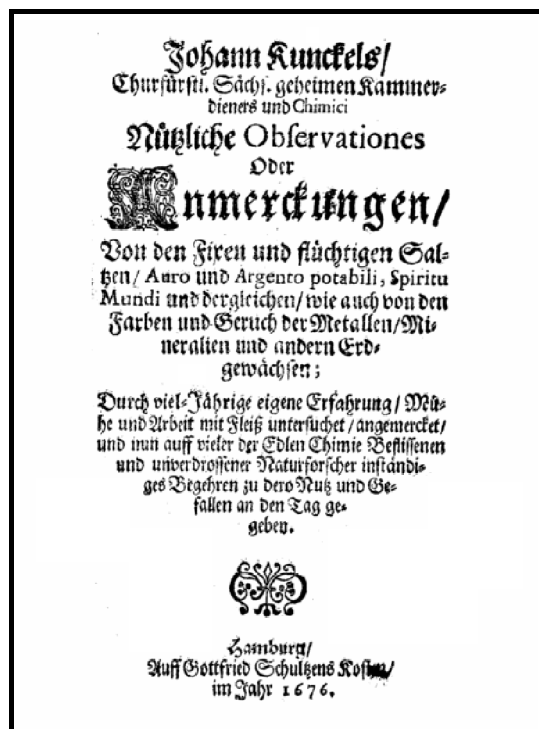
Kunckel's father was a master glassmaker (as the family had been for a couple of centuries) and some kind of chemical analyst and alchemist in the service of duke Friederich of Holstein. He had no university education. He was taught glassmaking and the chemistry of glassmaking by his father and other glassworkers. He learned the 'apothecary's art' in Rendsburg, and some more advanced chemistry of glass manufacturing later in Dresden.

REFERENCES: ADB. • *Dansk Biografisk Lexikon*. • DBA: I 724, 112-118; II 773, 57-75. • Jöcher, *Gelehrten-Lexikon*, 1750-51. • Maurach, H., "Johann Kunckel: 1630-1703," *Deutsches Museum Abhandlungen und Berichte*, 5 (1933), no. 2, 31-64. • Meyer, K., "Einige Lehr- und Dienstbriefe des Apothekergehilfen J.M. Kunckel," *Geschichte der Pharmazie*, 49 (1997), Q. 3-4, p. 49-55, facsim. • NDB: 13, 287a-98b [by U. Troitzsch]. • Partington, *History of Chemistry*, 1961-70: 2, 361-77. • Peters, H., "Kunckels Verdienste um die Chemie," *Archiv für die Geschichte der Naturwissenschaften und der Technik*,



KUNCKEL

4 (1912), 178-214. • Poggendorff: 1, cols. 1330-1. • Rau, H.G., "Johann Kunckel, geheimer Kammerdiener des grossen Kurfürsten, und sein Glaslaboratorium auf der Pfaueninsel in Berlin," *Medizinhistorische Journal*, 11 (1976), 129-148. • SBA: Scandinavian Biographical Archive: A-183, 257. • Schaedler, *Biographisch Handwörterbuch*, 1891: 63. • Schulze, G., "Kunckels Glaslaboratorium auf der Pfaueninsel: Bericht über chemische Untersuchungen an einigen Fundobjekten," *Medizinhistorische Journal*, 11 (1976), 149-156. • Thieme & Becker, *Allgemeines Lexikon*, 1907-50. • WBI.



NÜTZLICHE OBSERVATIONES, 1676

## 2838. — German, 1676.

Johann Kunckels/ | [...2 lines of titles and memberships...] | Nützliche Observationes | Oder | Anmerkungen/ | Von den Fixen und flüchtigen | Sal= | tzen/ Auro und Argento potabili, Spiritu | Mundi und dergleichen/ wie auch von den | Farben und Geruch der Metallen/ Mi= | neralien und andern Erd= | gewächsten; | Durch viel= | Jährige eigene Erfahrung/ Mü= | he und Arbeit mit Fleiß untersucht/ angemercket/ | und nun auff vieler der Edlen Chimie Bestiffenen | und univerrdrossener Naturforscher inständi= | ges Begehren zu dero Nutz und Ge= | fallen an den Tag ge= | beberg. | [ornament] | Hamburg/ | Auff Gottfried Schultzens Sosten/ | im Jahr 1676.

8°:  $\pi^2$  A-E<sup>8</sup> F<sup>4</sup> G<sup>5</sup>; 51 $\ell$ .; no pagination.

VERY RARE. Kunckel recognized the presence of sulfur in cinnabar but overlooked it as a component of other common sulfide minerals. Kunckel wrote primarily on inorganic chemistry and he was important in the discovery of phosphorus.

**Translations:** Partington lists a number of translations that need to be researched.

**REFERENCES:** Barke, J., *Die Sprache der Chymie: Am Beispiel von vier Drucken aus der Zeit zwischen 1574-1761*. Tübingen, Niemeyer, 1991. vii, 582 p., illus., notes. [Published as: *Reihe germanistische Linguistik*, 111.; analyses the alchemical language used in several works.]. • BL: [1034.c.17.(3.)]. • Ferguson, *Bibliotheca Chemica*, 1906: 1, 484. • Partington, *History of Chemistry*, 1961-70: 2, 361-77. • VD17: 3:003086T.

## 2839. — German, 1677.

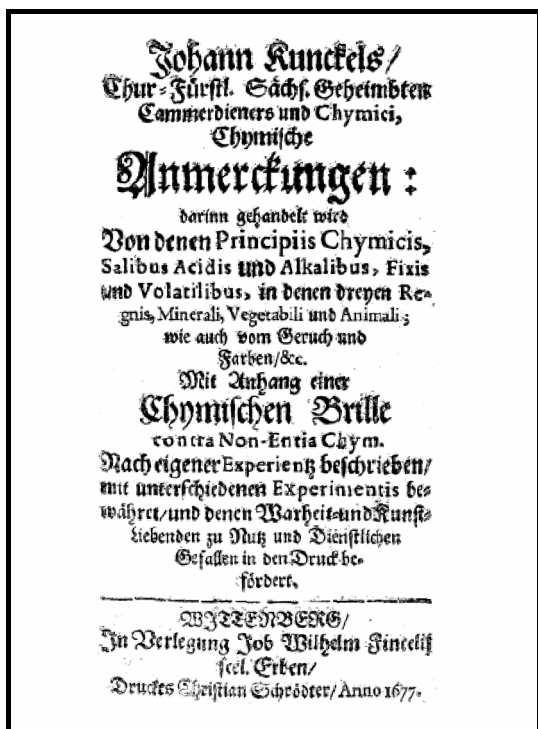
Johann Kunckels/ | [...2 lines of titles and memberships...] | Chymische | Anmerkungen: | darinn gehandelt wird | Von denen Principiis Chymicis, | Salibus Acidis und Alkalibus, Fixis | und Volatilibus, in denen dreyen Re= | gnis, Minerali, Vegetabili und Animal; | wie auch vom Geruch und | Farben/ &c. | Mit Anhang einer | Chymischen Brille | contra Non-Entia Chym. | Nach eigener Experientz beschrieben/ | mit unterschiedenen Experimentis be= | währet/ und denen Warheit= und Kunst= | Liebenden zu Nutz und Dienstlichen | Gefallen in den Druck be= | fördert. | [rule] | Wittenberg/ | In Verlegung Joh. Wilhelm Fincelius | seel. Erben/ | Druckts Christian Schrödter/ Anno 1677.

8°: [16], 192 p. RARE.

**REFERENCES:** Partington, *History of Chemistry*, 1961-70: 2, 364. • VD17: 3:003088H.

## 2840. — German, 1716 [First edition].

Johann Kunckel von Löwensterns | [...3 lines of titles and memberships...] | Chymicum Experimentale, | Oder | Laboratorium | Chymicum, | In welchem | Deutlich und gründlich | von den wahren Principiis in der | Natur und denen gewürckten Dingen | so



CHYMISCHE ANMERCKUNGEN, 1677

wohl über als in der Erden, | Als Vegetabilien,  
 Animalien, Mineralien, | Metallen, wie auch  
 deren wahrhaften Generation | Eigenschaften  
 und Scheidung, | Nebst der | Transmutation |  
 und Verbesserung der Metallen | gehandelt wird,  
 | Denen Liebhabern natürlicher Wissenschaften  
 zum | ungemeinen Nutzen nunmehr endlich |  
 Mit einem vollständigen Register und Vorrede |  
 herausgegeben | Von | Johann Caspar Engelleder,  
 | Med. Doct. und Pract. in Hamburg. | Mit  
 Königl. Pohl. auch Chur=Sächs. Privilegio. | [rule]  
 | Hamburg und Leipzig in Verlegung Samuel Heyls,  
 1716.

8<sup>o</sup>: )(7 )(8 A-Ccc<sup>8</sup> Ddd<sup>4</sup>; ??l.; [30], [1]-739,  
 [37] p., frontispiece (portrait of Kunckel signed H.W.  
 sec. Hamburg), one plate showing distillation apparatus  
 (p. 668). Errors in pagination: 174 as '74', 737 as '735',  
 738 as '736', and 739 as '737'. PAGE SIZE: 172 x 105  
 mm.

CONTENTS: [2 pgs], Title page, verso blank;  
 [26 pgs/=](1r-)(7r), "Vorrede."; [2 pgs/=](7v-)(8v),  
 "Inhalt des gantzen Wercks."; [1]-735 (i.e., 737), Text;  
 [Bbb2v-Ddd4v], "Register."

RARE. A collected edition of the author's  
 alchemical and chemical works compiled after his death  
 by J.C. Engelleder, a physician who had a practice  
 in Hamburg. It is a famous chemical handbook,  
 perhaps the most important work in the German  
 school of the second half of the the seventeenth

century. Partington (2, 361-77) gives a bibliographical  
 account with commentary to the many references to the  
 discoveries contained in this book, including as it does  
 "an interesting account of the large laboratory ('gold  
 house') in Dresden, as big as a church, with furnaces and  
 tall chimneys, of the old manuscripts, and of the harsh  
 treatment of former alchemists who failed to achieve  
 results."

Other editions: 1722, 1738 and 1767.

REFERENCES: BL: [1034.a.16.]. • Cole, *Chemical  
 Literature*, 1988: no. 732. • Kopp, *Geschichte der Chemie*,  
 1843-7: 1, 175-7. • Neu, *Chemical, Medical & Pharmaceutical  
 Books*, 1965: no. 2186. • NUC: ??????????. • Partington,  
*History of Chemistry*, 1961-70: 2, 365, IV.



KUNDMANN

**KUNDMANN, Johann Christian.** (BORN: Breslau,  
 Germany, 26 October 1684; DIED: Breslau, Germany,  
 11 May 1751) *German physician.*

Kundmann studied medicine and mathematics at  
 the Universities of Frankfurt an der Oder and at Halle.  
 Afterward he made an extensive scientific excursion  
 throughout Germany and Holland. In 1708, he established  
 a medical practice in Breslau, and eventually was named a  
 medical official for the city of Breslau. He was among the  
 first to collect comprehensive medical statistics of births  
 and causes of death. He held membership in the Leopoldino  
 Academiae.

REFERENCES: *Acta Physico-Medica [Leopoldina]*: 10  
 (1757). • ADB: 17, 377. • Börner, *Vornehmsten  
 Lebensumständen*, 1749-64: 1, 222 & 2, 761. • *Biographie  
 Universelle*. • DBA: I 724, 141-202; 724, 204-219; II  
 773, 101-112. • Drugulin, *Sechstausend Portraits*, 1863:  
 nos. 3031-4. • Ferchl: 288. • Hirsch, *Biographisches  
 Lexikon*, 1884-8: 3, 571-2. • Hunt Portrait Catalog: 222. •  
 Jöcher, *Gelehrten-Lexikon*, 1750-51. • Meusel, *Verstorbenen  
 Deutschen Schriftsteller*, 1802-16. • Poggendorff: 1, col. 1331.  
 • WBI.

**2841. — Latin, 1726.**

Promptuarium | Rerum | Naturalium | Et |  
 Artificialium | Vratislaviense | Præcipue | Quas  
 Collegit | D. Io. Christianus Kundmann | Medicus  
 Vratislaviensis. | [ornate rule] | Vratislaviæ | Apud  
 Michaellem Hubertium. | M DCC XXVI.



4°: [14], [1]-364 p.

RARE. Contains an account of various museums in and of the curiosities of Breslau (pp. 1-88), a catalog of the author's collection (pp. 89-336), and a list of the works quoted or referred to (pp. 337-364). The descriptions of the objects in the Museum are accompanied by references to the literature of the particular subjects.

REFERENCES: BL: [461.c.21.]. • Cobres, *Deliciae Cobresianae*, 1782: 1, 119. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 260. • LKG: XIV 301. • Murray, *Museums*, 1904: 1, 11 & 50, 2, 313. • Schröter's *Journal für die Liebhaber*: 2, 110.



RARIORA NATURE & ARTIS, 1737

## 2842. — German, 1737.

[In red:] Rariora Naturæ & Artis | [in black:] item | in Re Medica, | oder | Seltenheiten | der | [in red:] Natur und Kunst | [in black:] des | Kundmannischen Naturalien=Cabinets, | wie auch in der | [in red:] Artzeney=Wissenschaft. | [in black:] Darinnen abgehandelt werden | I. Examen, Fossilium & Lapidum quorundam rariorum, | oder | Untersuchung verschiedener unterirdischer Seltenheiten und sonderbar figurit= | ten Steine. | II. Memorabilia Naturæ & Artis, | oder | Merckwürdigkeiten der Natur und Kunst. | III. Observationes in Re Medica singulares. | oder | Sonderbare Anmerkungen

zur Artzeney=Kunst und Wissenschaft gehörig. | Denen beygesezt | I. Ungewöhnliche Delicatessen und abgeschmackte Speisen in allen Theilen der Welt, wie auch einzelner | Personen; | 2. Historie von der erschrecklichen Menschen=Pestilenz, wie sie vom Anfang dieses Seculi, bis auf das Jahr | 1715. von Orlent aus, durch die Polnische, Ungarische, Teutsche, Schwedische und Dänische Reiche von Jahren zu Jahren, von | Ort zu Ort, aufs besstigte gewütet, aus gedruckten, wie auch schriftlichen Nachrichten gesammelt, und was wegen der Præservation= | tion und Cur sonderbares angemercket worden; | 3. Reflexiones über die Kranckheits= und Todten=Listen, mit Medicinischen Anmerkungen begleitet, | und dem Druck, | Nebst vielen Kupffern und eingedruckten Figuren, | überlassen | von | [in red:] D. Johann Christian Kundmann, | [in black:] Medico Vratislaviensi, der Kays. Reichs=Academ. Natur. Curios. Mitglieder. | [double rule] | Breßlau und Leipzig, | [in red:] Bey Michael Hubert. 1737.

2°:  $\pi^2$  (2) (4 3) (1 a-d<sup>2</sup> A-Z<sup>4</sup> 2A-2Y<sup>4</sup> 2Z<sup>2</sup> 3A-3Z<sup>4</sup> 4A-4N<sup>4</sup> 4O-4R<sup>4</sup> 4S<sup>1</sup>; ??l.; [34] p., Cols. [1]-728, [737]-1312, [18] p., 17 plates (numbered I-XV), text illus., 3 tables (2 folding). Title in red and black. Columns 1093 to 1096 represent page numbers, not interrupting the column count. Printer's devices appear throughout the text. PAGE SIZE: 338 x 208 mm.

CONTENTS: [2 pgs], Title page, verso blank.; [8 pgs], Dedication to Conrad Ernst Maximilian.; [4 pgs], Poem, signed Julius Christian Kundmann.; [4 pgs], "Vorrede."—dated 26 September 1736.; [16 pgs], "Verzeichniß | derer Autorum und ihrer Schrifften, so in diesem Buch ange= | führet worden, it. welcher Editionum wir uns bedienen" [=list of approx. 350 authorities].; Cols. [1]-[4], Sectional title page, "Sectio I. | Examen Fossilium | Et | Lapidum | Qvorvndam Rariorm. | Oder | Untersuchung | verschiedener | Unterirdischer Seltenheiten, | Und | Sonderbar figurirten Steine. | I. Abschnitt," verso blank.; Cols. [5]-[8], "Verzeichniß der Artickel in dem | Ersten Abschnitt."; Cols. [9]-[368], Text.; Cols. [369]-[372], Sectional title page, "Sectio II. | Memorabilia | Natvrae et Artis. | Oder | Merckwürdigkeiten | Der | Natur und Kunst. | II. Abschnitt," verso blank.; Cols. [373]-[376], "Verzeichniß der Artickel in anderten | Abschnitt."; Cols. [377]-728, Text.; Cols. [737]-[740], Sectional title page, "Sectio III. | Observationes | Medicæ Singulares. | Oder | Sonderbare Anmerkungen | Zur | Artzney=Kunst gehörig. | III. Abschnitt," verso blank.; Cols. [741]-[744], "Verzeichniß der Artickel im dritten | Abschnitt."; Cols. [745]-1032, Text.; Cols. [1033]-[1036], Sectional title page, "Angewöhnliche Delicatessen | und | Abgeschmackte Speisen/ | In allen Theilen der Welt/ | Wie auch | Enzeler Personen/ | gesammelt | von | Doct. I.C. Kundmann," verso blank.; Cols. [1037]-[1038], "Vorrede."; Cols. 1039-1084, Text.; Cols. [1085]-[1088], Sectional title page, "Historia | von der Erschrecklichen | Menschen=Pestilenz, | Wie sie vom Anfang dieses Seculi bis auf das Jahr 1715. | von Orient aus, | Durch die Polnische/ Ungarische/ Teutsche/ | Schwedische und Dänische Reiche von Jahren zu | Jahren, von Ort zu Ort aufs hesstigte gewütet/ | Aus gedruckten, wie auch schriftlichen und gerichtlichen | Nachrichten gesammelt, | Und | was wegen der Præservation und Cur | sonderbares

angemercket worden, | von | D. Johann Christian Kundmann," verso blank.; Cols. [1089]-1096, "Vorrede." Note: Columns 1093 to 1096 represent page numbers not interrupting the column count.; Cols. 1097-1248, Text.; Cols. [1249]-[1252], Sectional title page, "Reflexions | über die | Kranckheits= | und | Todten=Listen | mit Medicinischen Anmerkungen | begleitet/ | von | D. Joh. Christian Kundmann," verso blank.; Cols. 1253-1312, Text.; [18 pgs], "Register | Derer Merckwürdigsten Sachen nach dem A.B.C. | und Zahl der Blätter.

PLATES: Tables occur in the text at column 1256 (folding), column 1264 (folding), and column 1300. Scattered throughout the book are the following unsigned, engraved plates: Tab. I (col. 16), folding plate showing 7 scenes of geological features, each with a description. Tab. I. Lit. B. (after Tab. I), showing one geological scene. Tab. II. (col. 44), 10 figures of fossil teeth. Tab. III. (col. 60), 8 figures of fossil shells. Tab. IV. (col. 84), 10 figures of fossil shells. Tab. V. (col. 100), 18 figures of general fossils. Tab. VI. (col. 140), folding plate, showing one figure of a dendritic slab. Tab. VII. (after Tab. VI), 14 figures of general fossils. Tab. VIII. (col. 160), one figure of coral. Tab. IX. (col. 164), 12 figures of coral. Tab. X. (col. 176), 20 figures of corals and creatures of the sea. Tab. XI. (col. 208), 67 figures of agate cabs. Tab. XII. (col. 236), 67 figures of minerals, crystals, and fossils. Tab. XIV. Lit. A. (col. 504), 9 figures of shells. Tab. XIV. (col. 532), one figure of a flowering plant. Tab. XV. (col. 544), 50+ figures of snowflakes.

VERY SCARCE. An account of natural, "artificial," and medical wonders, based largely upon the author's own Wunderkammer of oddities and extraordinary objects gathered from many nations of the world. objects include stones, gems, corals, fossils of animals and plants, ancient pottery, remarkable animals, eggs, living plants, strange astronomical events, Chinese porcelains, human monsters, Siamese twins, gall stones, etc. There is an important section describing the history of the plague from 1700 to 1715 with Kundmann's reflections on causes and prevention of the plague. Included is a bill of mortality of Breslau in the early 18th century. There is another section giving an early description of the six-sided snowflake with references to Johannes Kepler's *Sterna seu de Niue Sexangula* (Francofurti ad Moenvm, 1611).

REFERENCES: Cobres, *Deliciae Cobresianae*, 1782: 1, 109-10. • Freisleben, *Sächsische Mineralien-Verzeichnisse*, 1828: no. 18. • *Freilich Sale Catalog*: no. 323. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 261. • Hoover Collection: no. 497. • Murray, *Museums*, 1904: 2, 313. • NLM 18th Century Books (Blake): 249. • Sallander, *Bibliotheca Walleriana*, 1955: no. 5457. • Schröter's *Journal für die Liebhaber*: 2, 110-1. • Wellcome Catalog (Books): 3, 420.

#### 2843. — German & Latin, 1753 [Sale catalog].

Johann Christian Kundmanns Sammlung von natür- und künstlichen Sachen, auch Münzen, welche dieses 1753 Jahr &c. verkauft werden soll. Nebst einem Verzeichnisse vortrefflicher Malereyen, &c. und einem Catalogo nützlicher Medicinisch-Physik. Bücher, &c. Breslau bey J.J. Korn. Jo. Ch. Kundmanni &c. Collectio rerum naturalium artificialium & nymorum quæ hoc 1753 anno &c. publica actionis lege distrahetur. Accedit Descriptio Tabularum variarum &c. pictarum &c.

& Catalogus librorum medico-physicalium, &c. [Breslau, J.J. Korn, 1753].

Large 8°: [9], 517, 84 p.

RARE. Auction catalog of Kundmann's natural history collections. Included among the almost 6,000 lots are fossils, minerals, gems, natural oddities, stuffed birds and animals and a large selection of coins. The contents are divided into the animal, vegetable and minerals worlds, a section entitled "Arte Facta" (instruments, coins and medals), and paintings. After the sale of the Wunderkammer was completed, Kundmann's large and extensive library of 872 books that required 84 pages of description was also auctioned.

REFERENCES: Cobres, *Deliciae Cobresianae*, 1782: 1, 133. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 261. • Murray, *Museums*, 1904: 2, 313. • Schröter's *Journal für die Liebhaber*: 2, 111.



KUNZ

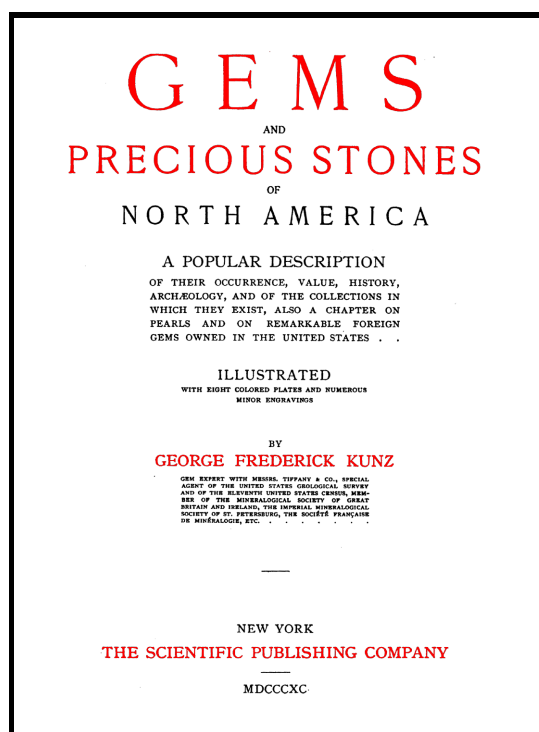
**KUNZ, George Frederick.** (BORN: New York City, New York, U.S.A., 29 September 1856; DIED: New York City, New York, U.S.A., 29 June 1932) *American gemologist*.

Kunz was the son of immigrant parents. At the age of ten his family moved to Hoboken, New Jersey, where he attended the public schools. Being poor, he was unable to afford college, however, Kunz taught himself enough mineralogy that he was able to secure in 1879 a position at the famous jewelry manufacturer, Tiffany & Company. He remained with the firm until his death, rising to vice president and finally trustee. He was highly successful in locating American sources of gems to be used in Tiffany's jewelry designs, and this brought him the honorary position of special agent of precious stones for the United States Geological Survey (1883 to 1909). Among many honors, Kunz was a founder and president of the New York Mineralogical Club. In 1903, a pink variety of the gem mineral spodumene was named "Kunzite" in his honor.

REFERENCES: ABA: 1923, 99-113. • Adams, *Dictionary of American Authors*, 1904: 222. • *American Mineralogist*: 18 (1933), 91-4, portrait [by P.F. Kerr]. • ANB: 12, 952-3 [by L.H. Conklin]. • *Bulletin of the Geological Society of America*: 44 (1933), 377-94, portrait [by H.P. Whitlock].

## KUNZ

- Cleavelly, *World Palaeontological Collections*, 1983: 176.
- DAB: Suppl. 1, 476-7. • *Herringshaw's National Library of American Biography*. • *ISIS*, 1913-65: 2, 33. • *National Cyclopaedia of American Biography*: 4, 433. • *New York Times*: 30 June 1932 [obituary]. • *Poggendorff*: 4, 818. • *Sarjeant, Geologists*, 1980: 2, 1495-9, Suppl. 2 (1995), 1, 814. • *Sinkankas, Gemology Bibliography*, 1993: 2, 576. • *WBI*. • *Who Was Who in America*: 1, 695. • *World Who's Who in Science*: 978-9.



GEMS, 1890

### 2844. — English, 1890 [First edition].

[In red:] Gems | [in black:] And | [in red:] Precious Stones | [in black:] Of | North America | A Popular Description | Of Their Occurrence, Value, History, | Archaeology, And Of The Collections In | Which They Exist, Also A Chapter On | Pearls And On Remarkable Foreign | Gems Owned In The United States... | Illustrated | With Eight Colored Plates And Numerous | Minor Engravings | By | [in red:] George Frederick Kunz | [...7 lines of titles and memberships...] | [in black, rule] | New York | [in red:] The Scientific Publishing Company | [in black, rule] | MDCCCXC.

4°: [2], [i]-vi, [1]-336 p., 8 color plates, black and white plates, text illustrations. Title in red and black. PAGE SIZE: 11 x 7.5 in

CONTENTS: [2 pgs]. Title page, verso "Copyright, 1890."; [i]-vi, "List Of Illustrations."; [3]-5, "Contents."; [6], Blank.; [7]-11, "Introduction."; [12], Blank.; [13]-330, Text.; [331]-336, "Index."

VERY SCARCE. A popular author on all aspects of gemology, this is Kunz's first major book and is devoted to a thorough description of North American gemstones. The volume contains information on gemstones and their locations in North America that Kunz had gathered from correspondents located all over the continent. These were the same people that supplied local information for inclusion in Kunz's annual contribution to the *Mineral Resources of the U.S.*, for which Kunz wrote the "precious stones" chapters for many years. In addition, being a vice president of the famous jewelry firm of Tiffany & Co. Kunz actively encouraged the exploitation of gem deposits and stood ready to purchase recovered material to financially assist such ventures. While much of the contained information has been augmented or improved upon in intervening years, the unique nature and value of this work is unquestioned and it is still of value today. The handsome colored lithographic plates included in this book together with those found in HAMLIN's tourmaline monographs are among the finest chromolithographic plates of minerals ever produced in the United States.

REFERENCES: Dana's 7th (Bibliography): 75. • Sinkankas, *Gemology Bibliography*, 1993: no. 6353.

**2845. 2nd edition, 1892:** Gems | and | Precious Stones | Of | North America | A Popular Description | Of Their Occurrence, Value, History, | Archaeology, And Of The Collections In | Which They Exist, Also A Chapter On | Pearls And On Remarkable Foreign | Gems Owned In The United States... | Illustrated | With Eight Colored Plates And Numerous Engravings | Second Edition with Appendix | By | George Frederick Kunz | [...10 lines of titles and memberships...] | [rule] | New York | The Scientific Publishing Company | [rule] | MDCCCXCII.

4°: [1]-336, [2 errata] p., 8 color plates, black and white plates, text illustrations. Title in red and black.

VERY SCARCE. Two appendices noting occurrence of gems since the first edition.

**Facsimile reprint, c1968:** *Gems & Precious Stones of North America A Popular Description of Their Occurrence, Value, History, Archaeology, & of the Collections in which they exist, Also a Chapter on Pearls & on Remarkable Foreign Gems Owned in the United States reprint of the second edition (with appendix) with new introduction by Edward Olsen.* New York, Dover Publications, Inc., c1968. 367 p., 9 colored plates.

REFERENCES: Dana's 7th (Bibliography): 75. • Sinkankas, *Gemology Bibliography*, 1993: no. 6354.

### 2846. — English, 1907.

North Carolina Geological And | Economic Survey | Joseph Hyde Pratt, State Geologist | [rule] | Bulletin No. 12 | [rule] | History Of The Gems Found In | North Carolina | By | George Frederick Kunz, Ph.D. | [ornament] | Raleigh | E.M. Uzzell & Co., Public Printers and Binders | 1907.

8°: xvii, 60 [2] p., 15 tipped in plates (4 chromolithographic plates with tissues). VERY SCARCE.

### KUNZ, Otto.

### 2847. — English, 1846.

A Treatise on Chemical Analysis of Minerals by Otto Kunz ... Pittsburg, Printed by Victor Scriba,

1846.

8°: 60 p., 2 folding tables, illus.

VERY SCARCE. Chemical analysis.

REFERENCES: *Pure & Applied Science Books*: 3, 3993. • *USGS Library Catalog*.

**KUPFFER, Adolph Theodor.** (BORN: Mitau, in the Baltics, 1799; DIED: 1865) *German chemist & physicist.*

Kupffer taught chemistry and physics at the University in Kazan. He was a member of the Academy in St. Petersburg and director there of the magnetic-meteorological Institute.

REFERENCES: ADB. • *Baltisches Biographisches Archiv*: 189, 29-47. • DBA: I 726, 170a-184; II 775, 1-2. • Hamberger & Meusel, *Gelehrte Teutschland*, 1796-1834. • Poggendorff: 1, cols. 1332-3. • WBI. • *Zvorykin, Biograficheskii Slovar*, 1958: 1, 473.

2848. — German, 1825.

Preisschrift | über | genaue Messung der Winkel | an | Krystallen. | [double rule] Von | Dr. Adolph Theodor Kupffer. | [ornate rule] Gekrönt | von der physikalischen Klasse der Königlich-Preussischen Akademie der | Wissenschaften am 3. Juli 1823. | [rule] Berlin. | Gedruckt in der Druckerei der Königl. Akademie | der Wissenschaften. | 1825. | [double rule] In Commission be F. Dümmler.

4°: viii, 136 p., one plate.

VERY SCARCE. The paper on the exact measurement of angles in crystals was awarded a prize by the Berlin Academy of Sciences.

REFERENCES: Darmstädter, *Berg-Büchlein*, 1926: 365-6. • NUC. • Shafranovskii, *Istoriia Kristallografii XIX Vek*, 1980: p. ??.

2849. — German, 1831.

Handbuch | Der | Rechnenden Krystallonomie. | [tapered rule] Von | A.T. Kupffer, | Mitglied De Kaiserlichen Akademie Der Wissenschaften Zu St. Petersburg. | [tapered rule] St. Petersburg 1831. | Gedruckt In Der Buchdruckerei Der Kaiserlichen Akademie Der | Wissenschaften.

4°: [i]-viii, [1]-591, [1] p., diagrams.

CONTENTS: [i-ii], Title page, verso "Auf Verfügung der Akademie gedruckt. | ... April 1831..."; [iii]-vi, "Vorwort."—dated May 1831.; vii-viii, "Inhaltsverzeichnis."; [1]-591, Text.; [1 pg], Blank.

VERY SCARCE. An advanced mathematical treatment of crystallography that covers the application of trigonometrical techniques to measuring crystal faces. Together with practical examples, Kupffer supplies the theoretical proofs to his ideas.

REFERENCES: NUC. • Shafranovskii, *Istoriia Kristallografii XIX Vek*, 1980: p. ??.

**KURR, Johann Gottlob von.** (BORN: Sulzbach on the Murr, Württemberg, Germany, 15 January 1798; DIED: Stuttgart, Germany, 9 May 1870) *German mineralogist & physician.*

Kurr was first a professor of botany, then mineralogy at the Polytechnic School in Stuttgart.

REFERENCES: ADB. • DBA: I 726, 384; II 775, 143-144. • *Deutsche Apotheker Biographie Supplement I*: 261-2. • Lambrecht & Quenstedt, *Catalogus*, 1938: 246. • Poggendorff: 1, col. 1333 & 3, 759. • Pritzel, *Thesaurus Literaturæ Botanicae*, 1871-3: 172. • Sarjeant, *Geologists*, 1980: 2, 1497. • WBI.



GRUNDZÜGE, 1836

2850. — German, 1836 [First edition].

Grundzüge | der | ökonomisch = technischen | Mineralogie. | [double rule] Ein Lehr= und Handbuch | für | Oekonomen und Gewerbsmänner, | sowie für | Real=, Gewerbs=, land= und forstwirtschaft= | liche Anstalten, | von | J.G. Kurr, | [...3 lines of title and memberships...] | Mit 6 Kupfern. | [rule] Ein supplirender (integrierender Theil der allgemeinen Encyclopädie | der gesammten Land= und Hauswirthschaft der Deutschen. | [double rule] Leipzig, | in Baumgärtners Buchhandlung. | 1836.

8°: \*3 1-138 217-278 286 A4 B5; 228ℓ.; [i]-xxii, [1]-433, [1] p., 6 plates (folding; numbered I-VI). PAGE SIZE: 180 x 105 mm.

CONTENTS: [i-ii], Title page, verso blank.; [iii], Dedication to Gustav Schubler.; [iv], Blank.; [v]-vi, "Vortwort."—dated Autumn, 1835.; [vii]-xxii, "Inhalt.;" [1]-408, Text.; 409, "Nachtrag.;" [410], Blank.; [411]-433, "Register | über die ökonomisch=technische Mineralogie.;" [1 pg], "Druckfehler und Verbesserungen | in der ökonomisch=technischen Mineralogie."

PLATES: The six unsigned, engraved plates are all folding, and numbered I to VI. Plate I show various

## KURR

apparatus, while II to VI show crystal diagrams and templates for cut-out crystal models.

VERY SCARCE. Kurr prepared this work as both a text book and reference work to mineralogy. It begins by defining the purpose and use of the science and giving reasons why it should be studied. The first part describes Oryktognosie or the physical and chemical characters of minerals, including crystallography, fracture, cleavage, hardness, specific weight, transparency, color, etc. This is followed by a systematic mineralogy that divides the species into: combustible minerals that don't contain metals, which are then divided by organic versus inorganic origins, minerals that contain "light" metals, including the precious stones, epidote, tourmaline, etc., and minerals that contain "dark" metals, including rutile, tantalite, wolframite, zincite, etc. A long section describing Geognosie follows the descriptive mineralogy. An index concludes the work.

**2851. 2nd edition, 1844:** Grundzüge | der | ökonomisch=technischen | Mineralogie. | [rule] | Ein Lehr- und Handbuch | für | Oekonomen und Gewerbsmänner, | sowie für | Polytechnische=, Real=, Gewerbs=, land= und forstwirth= | schaftliche Lehranstalten, | von | J.G. Kurr, | [...3 Lines of titles and memberships...] | Zweite Auflage. | Mit sechs schwarzen und einer colorirten Kupfertafel. | [double rule] | Leipzig, | Baumgärtner Buchhandlung. | 1844.

8°: \*7 1-398; 313ℓ.; [i]-xxviii, [2],[1]-619, [5] p., 7 folding plates (one colored, folding; numbered Taf. I-VII). PAGE SIZE: 207 x 120 mm.

CONTENTS: [i-ii], Half title page, "Grundzüge | der | ökonomisch=technischen | Mineralogie," verso blank; [iii-iv], Title page, verso blank; [v], Dedication to Dr. Gustav Schubler; [vi], Blank; [vii-viii], "Vorwort zu ersten Auflage."—dated Autumn, 1835; [ix]-x, "Vorwort zur zweiten Auflage."—signed G. Kurr, September 1843; [xi]-xxviii, "Inhalt.;" [1 pg], "Verbesserungen.;" [1 pg], Blank; [1]-544, Text; [545], "Anhang.;" [546], Blank; [547]-594, Text of Anhang; [595]-619, "Register.;" [1 pg], "Druck von Hirschfeld in Leipzig.;" [4 pgs], "Erklärung der Kupfertafeln.;"

PLATES: The seven folding, engraved plates are all unsigned, and are numbered Taf. I to Taf. VII. Plate I shows a blowpipe and compass, plates II to VI show crystal diagrams and cut-out crystal models, and plate VII, which is hand-colored, pictures geological cross-sections.

VERY SCARCE. A revised and enlarged version from the first edition, following the same format.

**2852. 3rd edition, 1851:** Grundzüge | der | ökonomisch=technischen | Mineralogie. | [rule] | Ein Lehr- und Handbuch | für | Oekonomen und Gewerbsmänner, | sowie für | Polytechnische=, Real=, Gewerbs=, land= und forstwirthschaftliche | Lehranstalten, | von | J.G. Kurr, | [...2 lines of titles and memberships...] | Dritte vermehrte Auflage. | Mit sechs schwarzen und einer colorirten Kupfertafel. | [tapered rule] | Leipzig, | Baumgärtner Buchhandlung. | 1851.

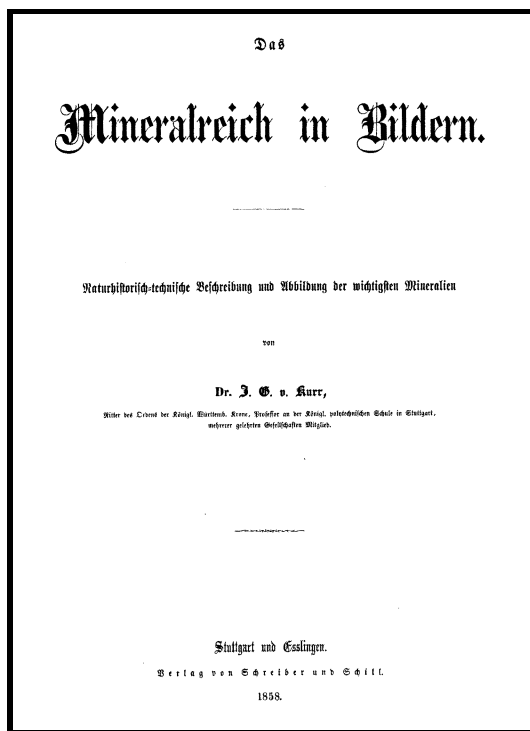
8°: xxx, 662 p., 7 folding plates (one colored). PAGE SIZE: 225 x 140 mm.

VERY SCARCE. Third edition.

REFERENCES: NUC: 309, 135-6 [NK 337264].

**2853. — German, 1858** [First edition, issue A].

Das | Mineralreich in Bildern. | [rule] | Naturhistorisch=technische Beschreibung und Abbildung der wichtigsten Mineralien | von | Dr. J.G. v. Kurr, | Ritter des Ordens der



DAS MINERALREICH IN BILDERN, 1858

Königl. Württemb. Krone, Professor an der Königl. polytechnischen Schule in Stuttgart, | mehrerer gelehrten Gesellschaften Mitglied. | [ornate rule] | Stuttgart und Esslingen. | Verlag von Schreiber und Schill. | 1858.

4°: π<sup>3</sup> 1-94 103; 42ℓ.; [i]-vi, [1]-78 p., 24 plates (22 hand-colored, numbered A-B, I-XXII). Each plate accompanied by a leaf of descriptive letterpress. PAGE SIZE: 345 x 225 mm.

CONTENTS: [i-ii], Title page, verso "Druck von Kreuzer in Stuttgart.;" [iii], "Vorwort"—signed Dr. v. Kurr, September 1857; [iv], Blank; [v]-vi, "Inhalts-Uebersicht.;" [1]-74, Text; 75-78, "Alphabetisches Verzeichniß.;" [At end], 24 plates, numbered A-B, I-XXII, each with descriptive letterpress.

PLATES: None of the plates is signed or has descriptions incorporated. The list below is taken from the descriptive letterpress that was included with the text. The plates consist of the following: Tafel A. Krystallflächen und einzelne Krystallformen (26 figs; xl drawings). Tafel B. Verschiedene Beschaffenheit der Krystallflächen, Combinationen, Aren und optische | Erscheinungen (21 figs; xls drawings). Tab I. Gemstones: diamond, sapphire, chysoberyl, spinel, zircon, beryl, emerald (33 figs). Tab II. Semi-precious stones: topaz, garnet, idocrase, olivine, epidote, johnite, lapis lazuli, etc. Tab III. Quartz (17 figs). Tab IV. Quartz and opal (20 figs). Tab V. Cyanite, starolite, adalusite, tourmaline, dichroite, augite, hornblende and other amphiboles (24 figs). Tab VI. Feldspar, micaceous minerals, granite (17 figs). Tab VII. Zeolites and carbonates (18 figs). Tab VIII. Marbles (9 figs). Tab IX. Marbles (9 figs). Tab X. Aragonite, gypsum, anhydrite, apatite, fluorite (18 figs). Tab XI. Fluorite, strontianite, halite (25 figs). Tab XII. Sulfur,

graphite, coal (13 figs). Tab XIII. Gold, platinum, iridium (14 figs). Tab XIV. Silver and silver minerals like proustite, pyrargarite, acanthite (16 figs). Tab XV. Cinnabar, covellite, chalcopyrite, bornite (16 figs). Tab XVI. Cuprite, azurite, malachite, pseudomalachite, diopside, euchroite, lroconite (23 figs). Tab XVII. Niccolite, cobaltite, erythrite, meteorites (17 figs). Tab XVIII. Magnetite, marcasite, magnetite, hematite, pyrolusite (23 figs). Tab XIX. Iron containing minerals, scorodite, vivianite, etc. (19 figs). Tab XX. Lead minerals: galena, cerussite, mimetite, wulfenite, crocoite, cassiterite, sphalerite (27 figs). Tab XXI. Minerals containing cadmium, bismuth, uranium, titanium, tantalum, tungsten (24 figs). Tab XXII. Minerals containing molybdenum, chrome, antimony, arsenic (20 figs).

SCARCE. This finely illustrated volume is divided into two sections. The first is the introduction which covers the forms of minerals and crystals, hardness, specific gravity, properties dependent on light and color, electricity, magnetism, and heat, chemical relations and a table of chemical elements. The remainder of the text is devoted to special or descriptive mineralogy. Here the various species and mineral groups are described. These include precious stones, hornblende or augite minerals, feldspathic minerals, zeolitic minerals, micaceous minerals, calcareous minerals, compounds of baryta, compounds of strontia, salts of potash, salts of soda, salts of magnesia, salts of ammonia, combustible minerals, and metallic minerals or ores.

The hand-colored plates, prepared for this first edition, were sold by the publisher to other distribution houses throughout Europe. These were used to issue translations of this popular "coffee-table" book in English (1859) and French (1859). A decade later, after chromolithography had become available to produce realistic colored illustrations by a cheaper method, the publisher had the plates redone. These new plates are easily identifiable with the absence of the word "Tab." from the top of each plate. The publisher then issued many subsequent editions and variants of the basic work in German. These included several editions prepared by ADOLF KENNGOTT after Kurr's death. In addition, the chromolithographs were sold by the publisher to firms in other countries, where the rather simple text was translated into the native language, issued with the German plates and a new mineralogical work published. As a result, a multitude of translations, some with multiple editions appeared causing a bibliographical knot. The following entries will hopefully provide guidance on the known editions.

REFERENCES: NUC: 309, 135-6 [NK 0337267].

**2854. 2nd edition, issue A, 1869:** Das Mineralreich in Bildern. | [rule] | Naturhistorisch=technische Beschreibung und Abbildung der wichtigsten Mineralien | von | Dr. J.G. v. Kurr, | Ritter des Ordens der Königl. Württemb. Krone, K. Oberstudienrath, Professor an der Königl. polytechnischen Schule in Stuttgart, | mehrerer gelehrten Gesellschaften Mitglied. | Zweite Auflage. | [ornate rule] | Eßlingen. | Verlag von J.F. Schreiber. | 1869.

2°: [i]-vi, [1]-63, [1] p., 24 plates (23 chromolithographs; each with descriptive letterpress). PAGE SIZE: 328 x 210 mm.

CONTENTS: [i-ii], Title page, verso "Druck v. J.F. Schreiber in Eßlingen."; [iii], "Vorwort."—signed Dr. v. Kurr, September 1857.; [iv], "Vorwort zur zweiten,

wohlfeileren Auflage."—signed Dr. v. Kurr, October 1868.; [v]-vi, "Inhalts-Uebersicht."; [1]-59, Text.; [60], Blank.; 61-63, "Alphabetische Verzeichniß."; [1 pg], Blank.

PLATES: Identical to the first edition, but now chromolithographs with the absence of "Tab." at the top of each plate.

VERY SCARCE. Second edition, issue A. Published as part three of: *Naturgeschichte des Thier-, Pflanzen- und Mineralreichs*. Each plate is accompanied by a page of descriptive letterpress.

**2855. 2nd edition, issue B, 1871:** Das Mineralreich in Bildern. Naturhistorisch=technische Beschreibung und Abbildung der wichtigsten Mineralien von Dr. J.G. v. Kurr ... Zweite Auflage. Eßlingen: Verlag von J.F. Schreiber, 1871.

2°: vi, 64 p., 23 colored plates, text illus.

VERY SCARCE. Second edition, issue B. Published as part three of: *Naturgeschichte des Thier-, Pflanzen- und Mineralreichs*. Each plate is accompanied by a page of descriptive letterpress.

**2856. 2nd edition, issue C, 1875:** Das Mineralreich in Bildern. | Naturhistorisch=technische Beschreibung und Abbildung der wichtigsten Mineralien | von | Dr. J.G. v. Kurr, | Ritter des Ordens der k. württ. Krone, k. Oberstudienrath, Professor a.b.k. polytech. Schule in Stuttgart, mehr. gelehrten Gesellschaften Mitglied. | Zweite Auflage. | [ornate rule] | Eßlingen. | Verlag von J.F. Schreiber. | 1875.

2°: vi, 64 p., 23 colored plates, text illus.

VERY SCARCE. Second edition, issue C. Published as part three of: *Naturgeschichte des Thier-, Pflanzen- und Mineralreichs*.

**2857. 3rd edition, issue A, 1878:** Das Mineralreich in Bildern. | [wavy rule] | Naturhistorisch=technische Beschreibung und Abbildung der wichtigsten Minerale | von Dr. J.G. v. Kurr, | Ritter des Ordens der k. württ. Krone, k. Oberstudienrath, Professor a.b.k. polytechn. Schule in Stuttgart, mehr. gelehrten Gesellschaften Mitglied. | Dritte Auflage. | Bearbeitet von Dr. A. Kennigott, | Professor der Mineralogie am eibgenössischen Polytechnikum und an der Universität in Zürich. | [ornament] | Eßlingen. | Verlag von J.F. Schreiber. | 1878.

[SERIES TITLE PAGE READS:]

Naturgeschichte | des | Thier-, Pflanzen- und Mineralreichs | in | colorirten Bildern nebst erläuterndem Text. | [wavy rule] | Dritte Abtheilung: | Naturgeschichte des Mineralreichs. | Mit 490 Abbildungen auf 24 Tafeln. | [ornate rule] | Eßlingen. | Verlag von J.F. Schreiber. | 1878.

4°: [i]-viii, [1]-65, [1] p., 24 plates (23 chromolithographs; each with descriptive letterpress). PAGE SIZE: 310 x 204 mm.

CONTENTS: [i-ii], Half title page, "Naturgeschichte des Mineralreichs," verso series title page.; [iii-iv], Title page, verso "Das Recht zur Herausgabe..."; [v], "Vorwort zur dritten Auflage."—signed Dr. A. Kennigott, December 1877.; [vi], Forwards to the first and second edition reprinted.; [vii]-viii, "Inhalts-Uebersicht."; [1]-62, Text.; 63-65, "Alphabetisches Register."; [1 pg], Blank.

VERY SCARCE. Third edition, issue A. First appearance of this famous illustrated mineralogy with the text revised by Adolf Kennigott.

**2858. 3rd edition, issue C, 1884:** Das Mineralreich in Bildern. | [rule] | Naturhistorisch=technische Beschreibung und Abbildung der wichtigsten Minerale | von | Dr. J.G. v. Kurr, | Ritter des Ordens der k. württ. Krone, k. Oberstudienrath, Professor a.b.k. polytechn. Schule in Stuttgart, mehr. gelehrten Gesellschaften Mitglied. | Dritte Auflage. | Zweiter Stereotop-Abdruck. | Neu bearbeitet von Dr. A. Kennigott, | Professor der Mineralogie am eibgenössischen Polytechnikum und an der Universität in Zürich. | [Vingette: rectangular showing

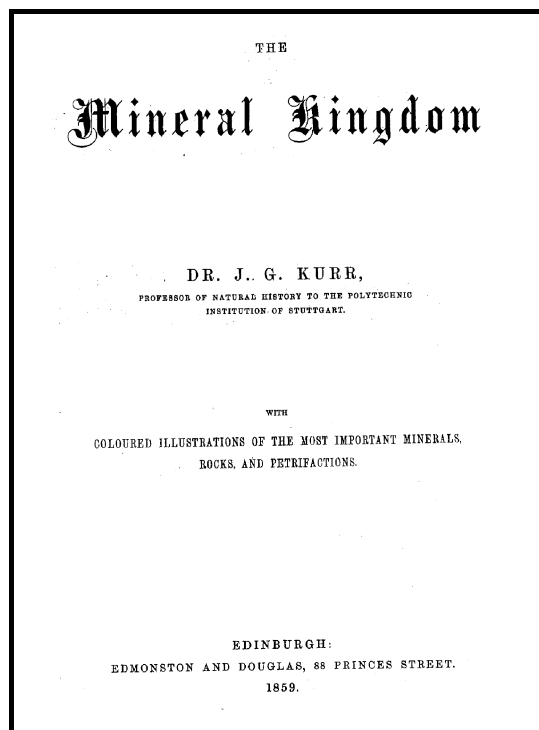
## KURR

elves working in a mine] | Eßlingen. | Verlag von J.F. Schreiber. | 1884.

4°: [i]-viii, [1]-65, [1] p., 24 plates (23 chromolithographs; each with descriptive letterpress). PAGE SIZE: 310 x 204 mm.

VERY SCARCE. Third edition, issue C.

REFERENCES: NUC: 309, 135-6 [NK 0337269].



THE MINERAL KINGDOM, 1859

**2859. English transl., 1859:** The | Mineral Kingdom | By | Dr. J.G. Kurr, | Professor of Natural History to the Polytechnic | Institution of Stuttgart. | With | Coloured Illustrations of the Most Important Minerals, | Rocks, and Petrifications. | Edinburgh: | Edmonston and Douglas, 88 Princes Street. | 1859.

2°: [4], [i]-iii, [1], [1]-70 p., 24 plates (23 hand-colored; each with descriptive letterpress). PAGE SIZE: 350 x 246 mm.

CONTENTS: [2 pgs], Title page, verso blank.; [1 pg], "Preface."—signed J. Van Voorst, 1 January 1859.; [1 pg], Blank.; [i]-iii, "Contents."; [1 pg], Blank.; [1]-70, Text.

VERY SCARCE. English translation of *Das Mineralreich in Bildern* (Eßlingen, 1858) by John Van Voorst. This finely illustrated volume is divided into two sections. The first is the introduction (pp. 1–11) which covers the forms of minerals and crystals, hardness, specific gravity, properties dependent on light and color, electricity, magnetism, and heat, chemical relations and a table of chemical elements. The remainder of the text (pp. 12–70) is devoted to special or descriptive mineralogy. Here the various species and mineral groups are described. These include precious stones, hornblende or augite minerals, feldspathic minerals, zeolitic minerals, micaceous minerals, calcareous minerals, compounds of baryta, compounds of strontia, salts of potash, salts of soda, salts of magnesia, salts of ammonia, combustible minerals, and metallic minerals or ores. The plates first prepared for the original German edition

are reproduced here in new engravings and are used to illustrate the descriptive mineralogy.

**John Van Voorst.** (BORN: ; DIED: ) *English publisher.*

REFERENCES: *Freilich Sale Catalog*: no. 324. • NUC: 309, 135-6 [NK 0337265]. (Voorst) Bridson, *History of Natural History*, 1994: no. D183. • Williams, R.B., "John Van Voorst: Patron publisher of Victorian natural history," *Private Library*, 4 (1988), no. 1, 4-12.

**2860. — English, 1869** [American issue].

Mineralogy Illustrated. | By | Dr. J.R. v. Kurr, | Professor At The Royal Polytechnic School At Stuttgart, Member Of Several Scientific Societies, Etc., Etc. | [ornate rule] | Boston: | Published By S.R. Urbino, 14 Bromfield Street. | 1869.

2°: [26] p., 24 plates (23 chromolithographs; each with descriptive letterpress). PAGE SIZE: 325 x 210 mm.

CONTENTS: [2 pgs], Title page, verso blank. This is followed by the same chromolithographic plates with 12 leaves of descriptive letterpress inbetween each of the 24 plates.

VERY SCARCE. This American issue takes the 1859 English translation by J. Van Voorst, with slight editing and resets the text. The plates are the chromolithographic issue from the German publisher.

REFERENCES: NUC: 309, 135-6 [NK 0337266].

**2861. French transl., 1859:** Album | de | Minéralogie | par | M. Le D<sup>r</sup> J.-G. Kurr | [ornate rule] | Paris | Librairie de Firmin Didot Frères, Fils et C<sup>ie</sup> | Imprimeurs de l'Institut de France, Rue Jacob, 56 | 1859.

4°: [2], [1]-7, [1] p., 24 plates (23 hand-colored; each with descriptive letterpress). PAGE SIZE: 344 x 244 mm.

CONTENTS: [2 pgs], Title page, verso blank.; [1]-3, "Ordre Des Matières."; [4], Blank.; [5]-7, "Table Alphabétique."; [1 pg], Blank.

VERY SCARCE. French translation of *Das Mineralreich in Bildern* (Eßlingen, 1858), and using the same hand-colored plates.

**2862. French transl., 1865:** Atlas | Extrait | de l'Album | de | Minéralogie | par | M. Le D<sup>r</sup> J.-G. Kurr | [ornate rule] | Paris | Librairie de Firmin Didot Frères, Fils et C<sup>ie</sup> | Imprimeurs de l'Institut de France, Rue Jacob, 56 | 1865.

4°: [2], [1]-8 p., 24 chromolithographic plates (23 colored). PAGE SIZE: 328 x 218 mm.

CONTENTS: [2 pgs], Title page, verso blank.; [1]-3, "Ordre Des Matières."; [4], Blank.; [5]-8, "Table Alphabétique."

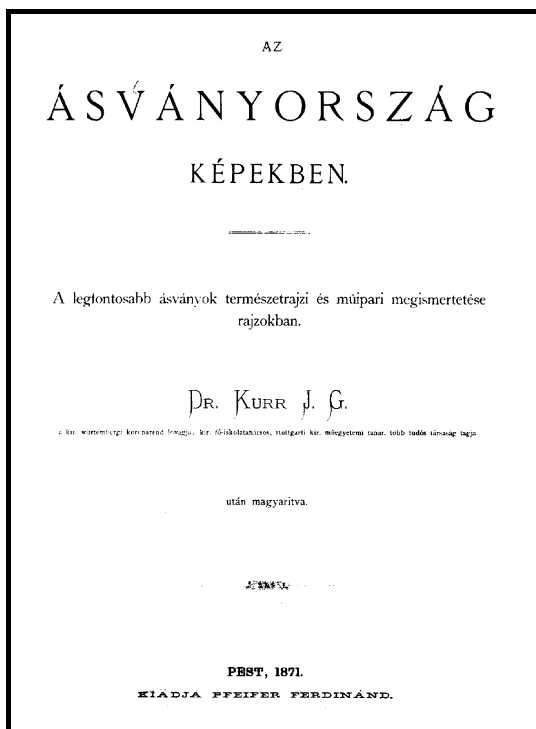
VERY SCARCE. Abridged edition of *Album de Minéralogie* (Paris, 1859). The plate are, however, identical to the previous French and German editions.

**2863. Hungarian transl., 1871:** Az | Ásványország | Képekben. | [double rule] | A legfontosabb ásványok természetrajzi és műipari megismertetése | rajzokban. | Dr. Kurr J.G. | a kir. württembergi koronarend lovagja, kir. főiskolatanácsos, stuttgarti kir. műegyetemi tanár, több tudós társaság tagja | után magyaritva. | [ornate rule] | Pest, 1871. | Kiadja Pfeifer Ferdinánd.

4°: π<sup>4</sup> 2-3<sup>4</sup> 4<sup>1</sup>; 13ℓ.; [26] p., 24 chromolithographic plates (23 colored). PAGE SIZE: 320 x 220 mm.

CONTENTS: [2 pgs], Title page, verso "Wigand K.F. nyomdája Pozsonyban."; [2 pgs], "Betűrendes tartalomjegyzék."; [22 pgs], Descriptive letterpress to plates.

RARE. Hungarian translation of *Das Mineralreich in Bildern*. The plates are identical to the chromolithographic one supplied by the German publishing house. The cover art of this translation and the Russian are identical.



AZ ÁSVSSNYORSZSSG KÉPEKBEN, 1871



ATLAS MINERALOV, 1871

**2864. — Russian, 1871** [First edition].

Атласъ | Минераловъ | [rule] | Составленный | Д-ромъ И.Г. фонъ Курромъ. | [rule] | Съ Текстомъ | А.Б. Ганике. | [ornate rule] | С.-Петербургъ. | Издание Книгопродавца Ф.А. Битепажа. | [rule] | 1871.

4°: 1-74 8<sup>1</sup>; 29ℓ.; [1]-58 p., 24 chromolithographic plates (23 colored). PAGE SIZE: 320 x 204 mm.

CONTENTS: [2 pgs], Title page, verso "[Rule] | Аозволено Пензырь ..."; [1]-58, Plates with interspersed descriptive letterpress.

RARE. First edition of the Russian translation completed by A. Ganike of *Das Mineralreich in Bildern* (1st ed., Stuttgart & Esslingen, 1858). The plates are identical to the chromolithographs supplied in the German editions. The major text consists of descriptive letterpress facing the plate to which it refers.

**2865. 2nd edition, 1897:** Атласъ | Минераловъ | Составленный | Д-ромъ И.Г. фонъ Курромъ. | Съ Текстомъ | А.Б. Ганике. | 2-е издание. | [ornate rule] | С.-Петербургъ. | Издание Книгопродавца Ф.А. Битепажа. | 1897.

4°: [1]-58 p., 24 chromolithographic plates (23 colored). PAGE SIZE: 324 x 210 mm.

CONTENTS: [2 pgs], Title page, verso "[Ornament] | [rule] | Аозволено Пензырь ..."; [1]-4, "Вбедение."; [5]-58, Plates with interspersed descriptive letterpress.

RARE. Second edition of the Russian translation by A. Ganike of *Das Mineralreich in Bildern*. The plates are identical to the chromolithographs supplied by the German editions. The major text consists of descriptive letterpress facing the plate to which it refers.

REFERENCES: Mourlon, *Bibliographia Geologica*, 1897: 5. • NUC: **309**, 135-6 [NK 0337261].

Názorný Přírodopis Nerostův. S vysvětlujícím textem od Prof. Pavla Jehličky. ... s 33 obrázky v textu a 490 obrázky bud rýsovanými aneb malovanými a přirozeným leskem opatřenými na XXIV tabulkách. (V Praze, 1875).

See: Jehlička, Pavla.

**KURZE.**

Kurze und deutliche Vorstellung Der Edlen Probierekunst (Nürnberg, 1695, and other editions).

See: Probiere Kunst.

**L'ISLE, Jean-Baptiste Louis Romé.**

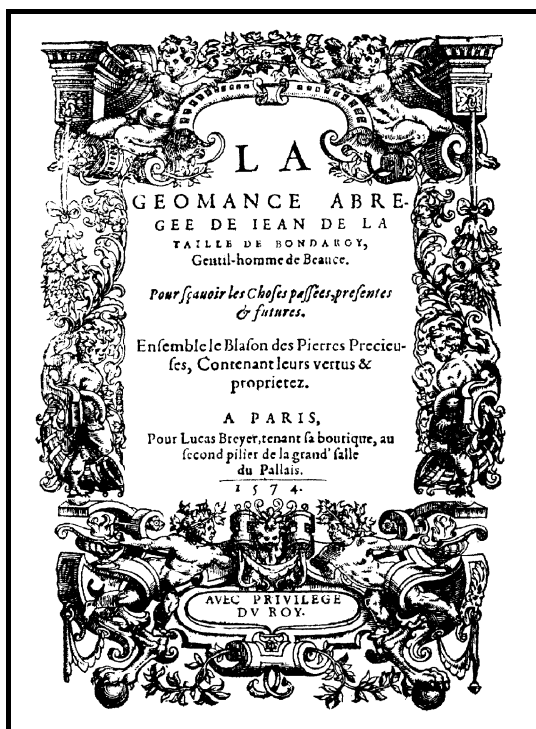
See: Romé De L'isle, Jean-baptiste Louis.

**LA TAILLE DE BONDAROY, Jean de.** (BORN: Bondaroy, France, c1540; DIED: Bondaroy, France, 1611/12) *French poet & dramatist*.

La Taille studied the humanities in Paris under Muret and law at Orleans. He was a Huguenot, but later converted to a mild catholicism. Wounded in a military action in 1570, he retired to his estate at Bondaroy. There he began his writing career with political pamphlets. Today, he is remembered for his dramas and comedies.

REFERENCES: ABF: I 606, 268-281, 301-318; 1063, 22-23. • DBF [Almost available]. • *Encyclopaedia Britannica*, 11th edition: **16**, 239. • Le Moyné, Nicolas Toussaint., *Les siècles littéraires de la France*. Paris, 1800-3. 4 vols. [Reprinted, Genève, Slatkine, 1971.]. • *Nouvelle Biographie Générale* (Hoefer): **29**, cols. 793-4. • Nicéron, *Mémoires*, 1729-42. • WBI.





LA GEOMANCE ABREE, 1574

## 2866. — Latin, 1574.

[Contained within an elaborate woodcut border, consisting of two compartments:] La | Geomance Abree De Iean De La | Taille De Bondaroy, | Gentil-homme de Beauce. | Pour sçavoir les Choses passees, presentes | & futures. | Ensemble le Blason des Pierres Precieuses, Contenant leurs vertus & | proprietes. | A Paris, | Pour Lucas Breyer, tenant sa boutique, au | second pilier de la grand' salle | du Palais. | [rule] | 1574. | [Within a second compartment: Avec Privilege | Dv Roy.

[TITLE OF PART 2 READS:]

[Within an elaborate woodcut border, consisting of two compartments:] Le Blason Des Pierres Precieuses Contenant Leurs Vertus & proprietes. | Par Iehan [!] de la Taille de Bondaroy, | A Tres-illustre Dame, Marie de Cleves, | Princesse de Conde. | A Paris, Pour Lucas Breyer, tenant sa boutique, au | second pilier de la grand' salle | du Palais. | [rule] | 1574. [Within a second compartment: Avec Privilege | Dv Roy.

2 parts in one volume. [Part I] 4°: \*4 A-N<sup>4</sup>; 56ℓ.; [4], 50, [2]ℓ., with a woodcut portrait of the author on the reverse of the title page. No pagination, foliation and signatures only. [Part II] 4°: A-E<sup>4</sup>; 20ℓ.; 18, [2]ℓ., with large ornamental woodcut border around title of both parts, full page medallion portrait of the author

(repeated at end), and a full page woodcut device. Error in foliation: leaves 9-14 numbered 5-10; leaves 16 and 19 numbered 14 and 16, respectively. PAGE SIZE: 174 x 120 mm.

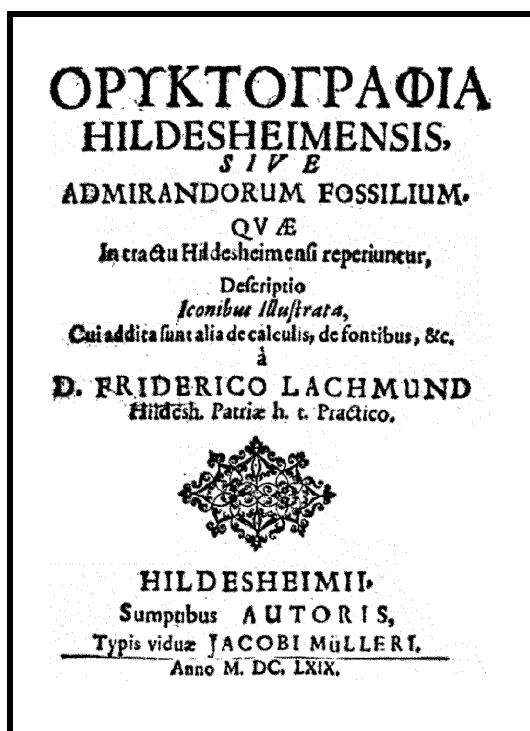
VERY RARE. Especially in the complete state with two parts (part two has a separate title and pagination and is sometimes found alone). The work contains two prose works by the French Renaissance poet Jean de La Taille, a disciple of Rosnard. The first treats astrology; the second deals with precious stones and the magnet, and a number of smaller poems.

REFERENCES: Brunet: 3, 869. • Caillet, *Manuel*, 1912: no. 6174. • NUC: 317, 419-20 [NL 0116995]. • Offenbacher, Bookseller: Catalog 38 (1938), no. 91a. • Roller & Goodman, *Catalogue*, 1976: 2, 80 [part 2 only]. • Sinkankas, *Gemology Bibliography*, 1993: no. 6476. • Wellcome Catalog (Books): 1, no. 3678.

**LACHMUND, Fridericus.** (BORN: Hildesheim, Germany, 1635; DIED: Hildesheim, Germany, 1676) *German physician.*

Lachmund had a medical practice in Hildesheim. He was a member of the Leopoldin Academy and contributed many observations to the society's *Miscellanea*.

REFERENCES: ADB. • DBA: I 729, 299-301; II 778, 361. • Jöcher, *Gelehrten-Lexikon*, 1750-51. • Poggendorff: 1, col. 1339. • WBI.



ORYKTOGRAPHIA HILDESHEIMENSIS, 1669

## 2867. — Latin, 1669.

ORYKTOGRAPHIA | Hildesheimensis, | Sive | Admirandorum Fossiliorum | Quæ | In tractu Hildesheimensi reperiuntur. | Descriptio | Iconibus

Illustratæ, | Cui addita sunt alis de calculis, de  
fontibus, &c. | à | D. Friderico Lachmund |  
[...one line of titles...] | [ornament] | Hildesheimii, |  
Sumptibus Autoris, | Typis viduæ Jacobi Mülleri  
| [rule] | Anno M. DC. LXIX.

4<sup>o</sup>: ):(<sup>4</sup>)o(<sup>4</sup>):(2<sup>3</sup> A-K<sup>4</sup> \*<sup>2</sup>; 53ℓ.; [22], 1-80, [4] p.,  
[18] leaves of plates (some folded), many woodcuts in  
the text.

CONTENTS: [1 pg], Title page.; [7 pgs], Dedication.;  
[4 pgs], "Ad Curiosum Lectorem."; [8 pgs], Recommendations,  
one of which is signed Joh. Daniel Major.; [2 pgs],  
"Index | Sectionum Et Ca- | pitum" (=table of contents);  
1-80, Text.; [4 pgs], "Index."

RARE. This very early topographical study  
contains mostly descriptions and good woodcut  
illustrations of the fossils and minerals discovered by  
the author in the area around Hildesheim, Germany  
and then held in his personal collection. The text  
illustrations and the folding plates figure various objects  
from this collection, including crinoid stems, crystals,  
and an Egyptian sarcophagus. Gatterer notes this is  
the first use of now obsolete term "Oryktographia"  
that was used through out the eighteenth century as  
a synonym for mineralogy. It is invoked in Greek on  
the title page as "ΟΡΥΚΤΟΓΡΑΦΙΑ". This is also the  
first book describing the mineral species found within  
a single geographical region and therefore it may be  
considered the first topographical mineralogy (at least  
the compiler knows of no other earlier work!).

REFERENCES: *Beiträge zur Naturgeschichte sonderlich des  
Mineralreichs*: 1 (1774), 67-70. • BL: [458.a.10.]. • Gatterer,  
*Mineralogischen Literatur*, 1798-9: 1, 110. • Lambrecht &  
Quenstedt, *Catalogus*, 1938: p. 247. • LKG: XIV 139.  
• NUC: 310, 462 [NL 0013137]. • Roller & Goodman,  
*Catalogue*, 1976: 2, 62.

**LACOSTE, Pierre François.** (BORN: 1754; DIED:  
1826) *French naturalist.*

REFERENCES: ABF: I 571, 303-307. • Feller, *Biographie  
Universelle*, 1851. • Poggendorff: 1, col. 1339. • Tardieu,  
Ambroise. *Dictionnaire des Sciences Naturelles*. (Paris, 1816-  
1830). Engraved all portraits.. • WBI.

## 2868. — French, 1805.

Lettres | Minéralogiques | Et Géologiques | Sur  
Les Volcanos | De l'Auvergne, | Écrites dans  
un voyage fait en 1804; | Par M. Lacoste, de  
Plaisance, ex-professeur d'his- | [...8 lines of titles  
and memberships...] | [tapered rule] | A Clermont, |  
De L'Imprimerie De Landroit. | [rule] | An XIII.—  
(1805).

8<sup>o</sup>: [8], [i]-ix, [1], [1]-459, [1] p., 2 large folding  
tables.

CONTENTS: [2 pgs], Half title page, "Lettres |  
Minéralogiques | Et Géologiques | Sur Les Volcanos  
| De l'Auvergne," verso blank.; [2 pgs], Title page,  
verso blank.; [4 pgs], Dedication, signed Lacoste.; [i]-ix,  
"Avertissement."; [1 pg], Blank.; [1]-404, Text.; [405]-440,  
"Table | Des Principales Matières."; [441]-459, "Table  
| Par Ordre Alphabétique."; [1 pg], Blank.; [At end], 2  
tables.

VERY SCARCE. These *Letters* describe Lacoste'  
mineralogical and geological observations on the extinct

# LETTRES MINÉRALOGIQUES ET GÉOLOGIQUES SUR LES VOLCANS DE L'Auvergne,

Écrites dans un voyage fait en 1804;

PAR LACOSTE, de Plaisance, ex-professeur d'his-  
toire naturelle à l'école centrale du département du  
Puy-de-Dôme; ex-professeur de morale à Toulouse;  
membre de la société littéraire de cette ville; associé  
correspondant de celle de Bordeaux; de la société  
d'agriculture, sciences et arts d'Agen, de Grenoble, de  
Montpellier; de la société médicale de Clermont-  
Ferrand; de la société phylotechnique et de l'acadé-  
mie celtique de Paris.

A CLERMONT,  
DE L'IMPRIMERIE DE LANDRIOT.

AN XIII.—(1805.)

LETTRES MINÉRALOGIQUES, 1805

volcanoes of the ancient Auvergne region of south-  
central France. He wrote them during a trip he made  
through the area in 1804.

REFERENCES: Leonard's *Taschenbuch*: 1806, p. 389. •  
LKG: XIV 360a. • NUC. • Roller & Goodman, *Catalogue*,  
1976.

**LACROIX, Antoine François Alfred.** (BORN: Mâcon,  
France, 4 February 1863; DIED: Paris, France, 16 March  
1948) *French geologist & mineralogist.*

Lacroix worked at the Musée National d'Histoire  
Naturelle in Paris. He made wide-ranging research into  
eruptive rocks, especially the Massif Central, Etna and  
Vesuvius.

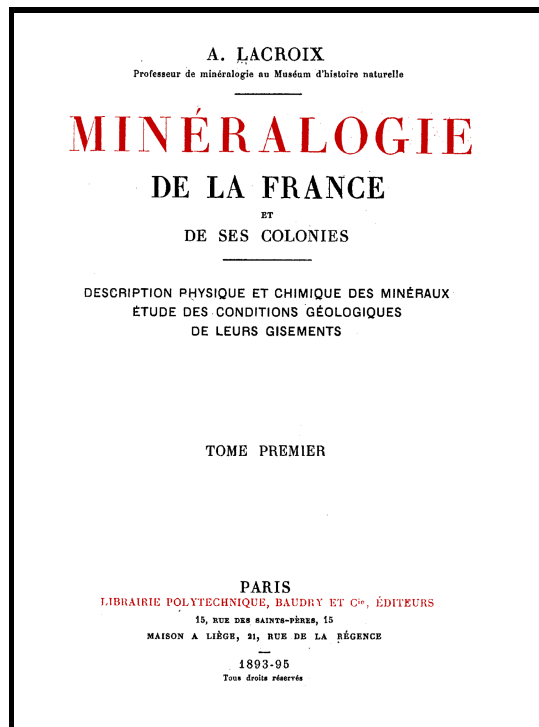
REFERENCES: ABF: I 572, 140-153; II 376, 386-389.  
• *Almanach der Akademie der Wissenschaften in Wien*: 98  
(1948), 258-62. • *American Mineralogist*: 34 (1949), nos. 3-4,  
242-8, portrait [by J. Orcel]. • Barr, *Index to Biographical  
Fragments*, 1973: 146. • *Bulletin de la Société Française de  
Minéralogie*: 73 (1950), nos. 7-9, 347-408, portrait [by J.  
Orcel]. • *Bulletin de la Société Géologique de France*: Series  
5, 19 (1949), 355-409, portrait [by J. Orcel]. • DSB: 7, 548-  
9 [by M. Hooker]. • *ISIS*, 1913-65: 2, 35. • Kettner, Radim.,  
"Alfred Lacroix (1863, +1948)," *Casopis pro Mineralogii  
a Geologii*, 8 (1963), no. 3, 292-4, portrait. • *Mémoire  
Académie Sci. Institute Français*: Series 2, 67 (1949), 127 p.  
• *Obituary Notices of the Royal Society*: 8 (1952), 193-205,  
portrait. • Poggendorff: 4, 824-5 & 5, 698. • *Proceedings  
of the Geological Society of America*: 1949, 183-5, portrait  
[by A.N. Winchell]. • Sarjeant, *Geologists*, 1980: 3, 1502 &  
Suppl. 1 (1986), 2, 573. • *Schweiz. Miner. Petrogr. Mitt.*: 29  
(1949), 199-208. • WBI. • *World Who's Who in Science*: 984.  
Minéraux des Roches. Résumé de Leurs Propriétés  
Optiques, Cristallographiques et Chimiques. Par A. Michel  
Lévy et A. Lacroix (Paris, 1888).

See: Michel-Lévy, Auguste.

## LACROIX

Tableaux des Minéraux des Roches. Résumé de Leurs Propriétés Optiques, Cristallographiques et Chimiques. Par A. Michel Lévy et A. Lacroix (Paris, 1889).

See: Michel-Lévy, Auguste.



MINÉRALOGIE DE LA FRANCE, 1893

### 2869. — French, 1893-1913 [First edition].

[In black:] A. Lacroix | [rule] | [in red:] Minéralogie | [in black:] De La France | Et | De Ses Colonies | [rule] | Description Physique Et Chimique Des Minéraux | Études Des Conditions Géologiques | De Leurs Gisements | Tome Premier | Paris | [in red:] Librarie Polytechnique, Baudry Et Cie, Éditeurs | [in black:] 15, Rue Des Saints-Pères, 15 | Maison A Liège, Rue Des Dominicains, 7 | [rule] | 1893 [-1910] | Tous droits réservés.

5 vols. [VOL 1: 1893-5] 8°:  $\pi^{10}$  28 22-45<sup>8</sup> 462; 372 $\ell$ .; [i]-xx, [1]-723, [1] p., illus., title page in red and black.; [VOL 2: 1896] 8°:  $\pi^2$  1-50<sup>8</sup> 512; 404 $\ell$ .; [4], [1]-804 p., illus., folding table; [VOL 3: 1901] 8°:  $\pi^2$  1-51<sup>8</sup>; 411 $\ell$ .; [i]-vi, [1]-815, [1] p., illus.; [VOL 4: 1910] 8°:  $\pi^4$  1-57<sup>8</sup> 58<sup>6</sup>; 466 $\ell$ .; [4], [i]-iii, [1], [1]-923, [1] p., illus.; [VOL 5: 1913] 8°:  $\pi^{10}$  2-30<sup>8</sup> 31<sup>11</sup>; 253 $\ell$ .; [4], [1]-501, [1] p. PAGE SIZE: 246 x 160 mm.

CONTENTS: [Vol 1] [i-ii], Half title page, "Minéralogie | De | La France," verso "Le présent volume a été publié en deux fascicules, ..."; [iii-iv], Title page, verso blank.; [v]-x, "Introduction."—signed A. Lacroix, 1 July 1892.; [xi]-xviii, "Observations Générales."; [xix]-xx, "Abréviations."; [1]-714, Text.; [715]-719, "Table Des Matières | Du Premier Volume."; [720], Blank.; [721]-723, "Errata."; [1 pg],

Blank.

[Vol 2] [2 pgs], Half title page, "Minéralogie | De | La France," verso "Le présent volume a été publié en deux fascicules, ..."; [2 pgs], Title page, verso blank.; [1]-2, "Introduction Du Tome II."—signed A. Lacroix, 2 January 1896.; [3]-799, Text.; [800], Blank.; [801]-804, "Table Des Matières | Du Deuxième Volume."

[Vol 3] [i-ii], Half title page, "Minéralogie | De | La France," verso "Macon Protat Frères, Imprimeurs."; [iii-iv], Title page, verso "Ce volume a été publié en | ..."; [v]-vi, "Introduction Du Tome III."—signed A. Lacroix, 1 July 1901.; [1]-812, Text.; [813]-815, "Table Des Matières."; [1 pg], "Errata."

[Vol 4] [2 pgs], Half title page, "Minéralogie | De | La France," verso "Macon Protat Frères, Imprimeurs."; [2 pgs], Title page, verso blank.; [i]-iii, "Introduction Du Tome IV."—signed A. Lacroix, 1 May 1910.; [1 pg], Blank.; [1]-906, Text.; [907]-920, "Table Générale Des Matières."; [921]-923, "Errata."; [1 pg], Blank.

[Vol 5] [2 pgs], Half title page, "Minéralogie | De | La France," verso "Macon Protat Frères, Imprimeurs."; [2 pgs], Title page, verso blank.; [1], "Minéralogie De La France | Deuxième Supplément."; [2], Blank.; [3]-94, Text of mineral descriptions.; [95], "Index Géographique."; [96], Blank.; [97]-460, "Index Géographique | France."; [461]-480, "Table Systématique | Des Espèces Étudiées."; [481]-495, "Table Générale Des Matières."; [496], Blank.; [497]-501, "Errata."; [1 pg], Blank.

VERY SCARCE. Based on several previous French mineralogists as well as Lacroix's own researches, this series concerning France and its colonies is among the best of topographical mineralogies. In each volume after the introduction, the individual minerals are arranged according to a chemical classification. Through Lacroix personal researches he was able to add a great many new mineral species to those already known.

REFERENCES: Dana's 7th (Bibliography): 75.

### 2870. — French, 1922-3.

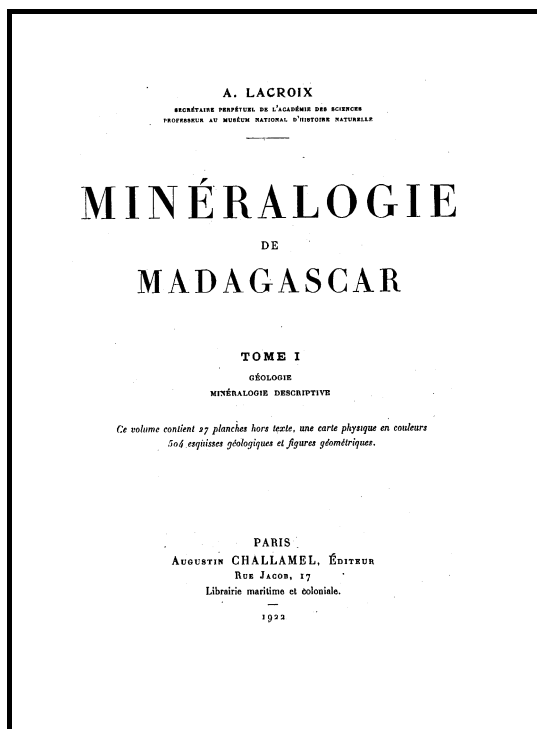
A. Lacroix | [...2 lines of titles and memberships...] | [rule] | Mineralogie | De | Madagascar | Tome I | Géologie | Minéralogie Descriptive | Ce volume contient 27 planches hors texte, une carte physique en couleurs | 504 esquisses géologiques et figures géométriques. | Paris | Augustin Challamel, Éditeur | Rue Jacob, 17 | Librairie maritime et coloniale. | [rule] | 1922.

3 vols. [VOL 1: 1922] 4°:  $\pi^4$  b<sup>4</sup> 1-78<sup>4</sup>; 320 $\ell$ .; [i]-xvi, [1]-624 p., 27 plates, 1 colored map, 504 figures; [VOL 2: 1922] 4°:  $\pi^4$  1-87<sup>4</sup>; 351 $\ell$ .; [i]-vii, [1], [1]-694, [2] p., 29 plates, 11 figures; [VOL 3: 1923] 4°:  $\pi^4$  1-56<sup>4</sup> 57<sup>1</sup>; 229 $\ell$ .; [i]-vii, [1]-450 p., 8 plates, 1 geological map, 28 figures.

CONTENTS: [Vol 1] [i-ii], Half title page, "Minéralogie | De | Madagascar," verso blank.; [iii-iv], Title page, verso blank.; [v]-xvi, "Préface."—signed A. Lacroix.; [1]-604, Text.; [605]-613, "Explication Des Planches."; [614], Blank.; [615]-624, "Table Des Matières."

[Vol 2] [i-ii], Half title page, "Minéralogie | De | Madagascar," verso blank.; [iii-iv], Title page, verso blank.; [v]-vii, "Avant-Propos."—signed A. Lacroix.; [1 pg], Blank.; [1]-665, Text.; [666], Blank.; [667]-672, "Explication Des Planches."; [673]-694, "Table Des Matières."; [2 pgs], Blank.

[Vol 3] [i-ii], Half title page, "Minéralogie | De | Madagascar," verso blank.; [iii-iv], Title page, verso blank.; [v]-viii, "Avant-Propos."—signed A. Lacroix.; [1]-



MINERALOGIE DE MADAGASCAR, 1922

334, Text.; [335]-349, "Bibliographie."; [350], Blank.; [351]-409, "Index Géographique Malgache."; [410], Blank.; [411]-420, "Index Des Noms Géographiques | Étrangers A Madagascar."; [421]-431, "Index Géologique | Lithologique Et Minéralogie."; [432], Blank.; [433]-434, "Errata."; [435]-437, "Errata Des Noms Malgaches."; [438], Blank.; [439]-440, "Explication Des Planches | Du Tome III."; [441]-450, "Table Des Matières | Du Tome III."

SCARCE. With the aid of the provincial governor, General Galliéni, Lacroix was able to arrange the methodical collection of specimens throughout locations in the island of Madagascar by using civil servants, military chiefs, correspondents of the Natural History Museum in Paris, etc.

A classic work in the category of regional mineralogies is this set devoted to the Island of Madagascar. The work consists of six parts. The first of these (vol. 1, pp. 1-148) describes the geology and geography of Madagascar. The second (vol. 1, pp. 149-604) is a descriptive mineralogy of the island which lists the 195 species known to occur, together with information on occurrences, analyses and optical determinations. Included in this section are 27 photographic plates, 504 crystal drawings and a large map of the island. The third part treats economic mineralogy (vol. 2, pp. 1-218). Described here are all substances that are mined on the island for profit, including precious metals, common metals, graphite, salt, mica, etc. Twenty-three of the plates as well as a number of sketch maps serve as illustrations. Lithology is covered in the fourth part (vol. 2, pp. 219-

665). It includes descriptions of intrusives crystalline massif, the schistose rocks, as well as the pegmatites. A number of plates illustrate thin sections of the rocks. Volume three continues and concludes the fourth part, devoting pages 1-90 to Lithology. The alteration of the rocks to laterite and red earth is described in part five (vol. 3, pp. 91-149), and part six (vol. 3, pp. 150-294) considers the mutual relationships of the rocks, citing comparisons with similar rocks in other parts of the world. Appendices to all three volumes occur after part six on pages 295-334. This is followed by a bibliography (pp. 335-350), and geographic and subject indices (pp. 351-431), which conclude the volume.

REFERENCES: *American Mineralogist*: 8 (1923), 96 & 9 (1924), 155. • Dana's 7th (Bibliography): 75. • DSB: 7, 548-9 [by M. Hooker].

### 2871. — French, 1932-8.

Alfred Lacroix | Secrétaire Perpétuel De L'Académie Des Sciences | [short rule] | Figures De Savants | [short rule] | Tome I. [-IV.] | [ornament] | Paris | Gauthier-Villars Et C<sup>ie</sup>, Éditeurs | Libraires Du Bureau Des Longitudes, De L'École Polytechnique | 55, Quai des Grands-Augustins, 55 | [short rule] | 1932 [-1938].

4 vols. [VOL 1: 1932] 8°: x, 325 p., 32 plates. [VOL 2: 1932] 8°: 356 p., 26 plates. [VOL 3: 1938] 8°: xiii, 220 p., 38 plates. [VOL 4: 1938] 8°: 259 p., 59 plates. PAGE SIZE: 250 x 160 mm. uncut.

PLATES: On the upper left hand corner of each plate appears the descriptor, "A. Lacroix, T. 1. [-4.] — Figures de savants. On the upper right hand corner appears the "Pl." number. Each plate has a description at the bottom. Each plate shows either a portrait or a facsimile of manuscript writing, usually in the form of a letter.

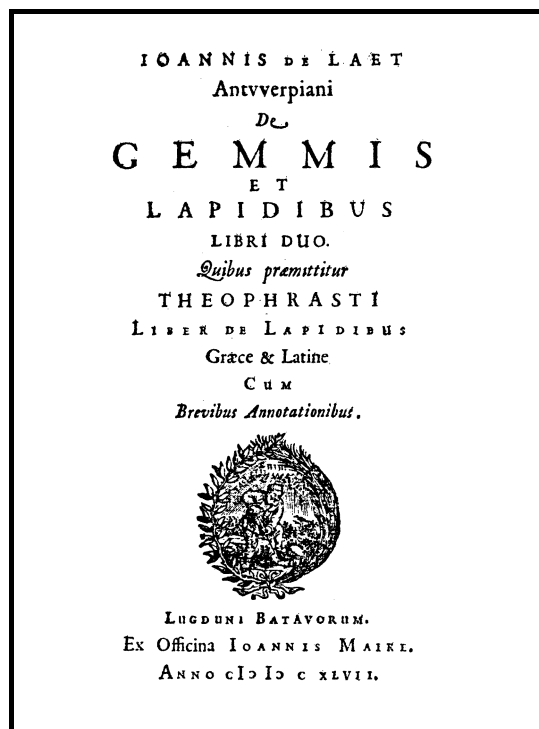
VERY SCARCE. An amazing compilation of biographies of French scientists, who turn out to be mostly naturalists, geologists and mineralogists. The articles are long, in-depth reviews of the life and work of the subject, which is usually richly illustrated with portraits and examples of their correspondence and signatures. The last two volumes, which deal with scientists who worked in French colonies around the world, appear to be especially difficult to acquire. Among the people covered are Georges Cuvier, Marcelin Berthelot, Déodat Dolomieu, Michel Adanson, and Louis Pasteur.

REFERENCES: *Isis*: 29 (1938), no. 2, p. 437-440. • NUC.

**LAET, Jan (Johan, Joannis) de.** (BORN: Antwerp, Belgium, 1582; DIED: Antwerp, Belgium, 15 December 1649) *Belgian*.

Laet was born into a wealthy family and he therefore received a good education including languages. He published important early descriptions of the New World, as well as Spain, Italy, and Persia. He became one of the directors of the famous Compagnie des Indes (Dutch West-Indes Company).

REFERENCES: Aa, *Biographisch Woordenboek*, 1852-78. • BAB: 385, 171-194. • Jacobs, J.A., "Johannes de Laet en de Nieuwe Wereld," *Jaarboek van het Centraal Bureau voor Genealogie*, 50 (1996), 108-30. • Poggendorff: 1, col. 1341. • WBI.



DE GEMMIS ET LAPIDIBUS, 1647

**2872. — Latin, 1647.**

Ioannis de Laet | Antvverpiani | De | Gemmis |  
Et | Lapidibus | Libri Duo. | Quibus præmittitur |  
Theophrasti | Liber de Lapidibus | Græce & Latine  
| Cum | Brevibus Annotationibus. | [ornament] |  
Lugduni Batavorum. | Ex Officina Ioannis Maire.  
| Anno MDCLXVII.

8°: \*-\*-\*8 \*-\*-\*3 A-N<sup>8</sup> O4; [54], 1-210, [6] p.,  
woodcut illus. Printer's device on title. PAGE SIZE:  
176 x 100 mm.

CONTENTS: [2 pgs], Title page, verso blank. [5 pgs],  
"Index Capitum."; [1 pg], "Errata."; [46 pgs], "Theophrasti  
| De | Lapidibus."; 1-96, "Liber Primus | De | Gemmis  
Pellucidis | Et Semipellucidis."; 97-210, "Liber Secundus |  
De | Lapidibus."; [6 pgs], "Index | Præcipuarum Rerum  
Quæ In His Libris | Tractantur."

RARE. Laet's book on stones, gems and shells,  
illustrated in the *liber secundus* with woodcuts, among  
them several handsome ones of shells. Included in  
Greek with Latin translation by Daniele Furlano, is  
Theophrastus' treatise on stones. Furlano's translation  
had appeared in the collect edition (Hanau, 1605), but  
was revised, with additions for this Leyden 1647 edition.

REFERENCES: Adams, *Origin and Nature of Ore  
Deposits*, 1934: 162-3. • LKG: XVI 203. • Sinkankas,  
*Gemology Bibliography*, 1993: no. 3747.

**LAMÉTHÉRIE, Jean Claude De.**

See: Delaméthérie, Jean-claude.

**LAMPADIUS, Wilhelm August.** (BORN: Hehlen,  
Germany, 8 August 1772; DIED: Freiburg, Germany, 13



LAMPADIUS

April 1842) *German chemist & pharmacist.*

In 1785, Lampadius was apprenticed to a Göttingen  
apothecary, but his interest in natural history caused him  
to enroll in the local University in 1791. In 1795, on the  
death of C.E. GELLERT, he was named professor of chemistry  
at the Freiberg Bergakademie. He traveled a great deal,  
including a lengthy trip to Russia.

REFERENCES: ADB: 17, 578. • DBA: I 732, 402-  
423; II 781, 248-254. • Hamberger & Meusel, *Gelehrte  
Deutschland*, 1796-1834. • ISIS, 1913-65: 2, 43. • NDB:  
13, 456-7 [by R. Dietrich]. • Poggendorff: 1, cols. 1361-2  
& 6, ?? . • Richter, J., *Lampadius und Freiberg: Freibergs  
Hüttenwesen im Zeitalter der industriellen Revolution (1800  
bis 1870)*. Freiberg, Bergakademie, 1972. • Schaedler,  
*Biographisch Handwörterbuch*, 1891: 64. • Schiffner, *Alter  
Freiberger Bergstudenten*, 1935-40: 2, 6 & 3, 140-2, portrait.  
• Szabadváry, *History of Analytical Chemistry*, 1966: 150-2  
& 159. • WBI. • *World Who's Who in Science*: 990.

**2873. — German, 1795-1800.**

Sammlung praktisch-chemischer Abhandlungen  
und vermischter Bemerkungen. Dresden, In der  
Waltherschen Hofbuchhandlung, 1795-1800.

3 vols. [VOL 1: 1795] 8°: 235 p. [VOL 2: 1797] 8°:  
[VOL 3: 1800] 8°:

RARE. A collection of memoirs and other papers  
concerning the practical application of chemistry to  
a variety of problems, including mineral extraction  
and refinement. There are descriptions of the Harz  
mountains and the famous 'Erzgebirge' of Saxony.

REFERENCES: *Allgemeine Literatur-Zeitung*: Feb., 1796,  
296. • BL: [1142.f.1]. • Dana's 7th (Bibliography): 75.  
• Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 311. •  
LKG: XI 22. • *Magazin für das Neueste aus der Physik  
und Naturgeschichte*: 10 (1796), 176-84. • NUC: 313, 389-90  
[NL 0057291].

**2874. — German, 1801 [First edition].**

Handbuch | zur | chemischen Analyse | der  
| Mineralkörper. | [ornate rule] | Von | W.A.  
Lampadius. | Professor der Chemie und des  
Hüttenwesens an der | Freyberger Bergakademie. |



HANDBUCH, 1801

[rule] Freyberg, 1801. | Im Verlage der Crazischen Buchhandlung.

8°: [i]-viii, [1]-362, [2] p., one folding plate.

RARE. Gives details of the equipment necessary for the analysis of minerals, as well as instructions for their use. It also describes various analytical methods, giving a list of reagents. The analysis of individual minerals is then described.

Lampadius' methods are generally as good as Klaproth's, and there are portions of the book that foreshadow textbooks of a later period. For example, it contains a detailed list of equipment and apparatus required for analysis, as well as instructions for their use. In the introduction a long passage describes the preparation of the necessary reagents, and methods for testing their purity. Szabadváry (1966) says these "descriptions are the earliest record of standard methods used for testing the purity of analytical grade reagents and in many cases are very similar to present day methods."

REFERENCES: BL: [1035.1.27.]. • LKG: XI 23a. • NUC: 313, 389-90 [NL 0057282]. • Szabadváry, *History of Analytical Chemistry*, 1966: p. 150-2.

**2875. Supplement, 1818:** Nachträge zur Handbuch zur chemischen Analyse der Mineralkörper ... Freyberg, In der Craz- und Gerlachischen Buchhandlungen, 1818.

8°: [1]-86 p.

RARE. Supplemental volume to Lampadius' *Handbuch zur chemischen Analyse der Mineralkörper* (Freyberg, 1801).

REFERENCES: LKG: XI 23a. • NUC: 313, 389-90 [NL 0057282].

**2876. Italian transl., 1803:** Metodo | Pratico | per | Analizzare i Minerali | Opera di | Cuglielmo, Augusto Lampadius | [...3 lines of titles and memberships...] | Tradotto dall' idioma tedesco | corredato di molte note ed aggiunte | da Leopoldo Fabbroni | Fiorentino. | [rule] | In Firenze 1803. | [rule] | Presso Giuseppe Rofani e Comp. | Con Approvazione.

8°: \*-\*8 a-p8 q4; 140ℓ.; [i]-xxxi, [1], 1-246, [2] p., 2 folding plates.

CONTENTS: [i-ii], Title page, verso blank.; [iii], Translator's dedication.; [iv], Blank.; v-vi, "Prefazione del Traduttore."; vii-xxxi, "Introduzione."; [1 pg], Blank.; [1]-244, Text.; 245-246, "Spiegazione della Prima Tavola.";

[1 pg], Errata.; [1 pg], Blank.

RARE. Translated by Leopoldo Fabroni from *Handbuch zur chemischen Analyse der Mineralkörper* (Freyberg, 1801). The text is divided into three major sections describing the analysis of minerals, the apparatus needed and the preparation of reactants and reagents. The translator has according to Cole added notes on additional reagents and the process for exact determinations.

REFERENCES: Cole, *Chemical Literature*, 1988: no. 747. • NUC: [no copy listed].

## 2877. — German, 1804-26.

Handbuch der allgemeinen Hüttenkunde. Zweyter (applicativer) Theil, die Praxis des Hüttenwesens enthaltend. Göttingen, Dieterich, 1804-5.

2 vols. bound in 5 and 2 supplemental volumes. [VOL 1] 8°: VIII, 355 p.; [VOL 2] 8°: 304, [4] p., 9 folding plates and 21 folding tables. PAGE SIZE: 198 x 115 mm.

RARE. A reference work used in metallurgy and manufacturing in Europe. It was one of the chief works consulted. Deals with mining, assaying and production of silver, gold, copper, tin, iron and steel, etc., etc.

I: Präparativer Teil. Zweyte, mit Text und Kupfern vermehrte Ausgabe. 1817. 21 Taf. Titel, 504 S. - II: Applicativer Teil, die Praxis des Hüttenwesens enthaltend, 4 Bände: 1: Silber-, Gold-, Bley- und Kupferhüttenarbeiten. 1804. 2 Taf., 1 Tab. VIII, 355 S. 2: (nicht vorhanden). 3: Das Ausbringen des Zinnes, das Blaufarbenwesen, die Arsenikfabrikation, das Ausbringen des Zinks nebst der Messingbereitung, das Ausbringen des Wismuths und Spießglanges; so wie die Vitriol- und Alaunsiederey. 1809. 18 Taf. VI S., 1 Bl., 424 S. 4: Die hüttenmännische Benutzung der Eisenerze überhaupt, so wie die Frischprocesse und die Stahlfabrikation. 1810. 17 Taf. 1 Tab. XXVIII, 352 S. - Suppl. 1: 1818. 3 Taf. Titel, IV, 230 S. Suppl. 2: 1826. 7 Taf., 3 Tab. VI S., 1 Bl., 288 S. Reichardt I, S. 79. - Ersch, Lit. der Mathematik... Sp. 535, Nr. 535a u. b.

REFERENCES: *Freilich Sale Catalog*: no. 329. • NDB: 13, 456. • NUC: 313, 389-90 [NL 0057279].

## 2878. — German, 1809.

W.A. Lampadius | Professors der Chemie zu Freyberg u. | Erläuternde Experimente | über die | Grundlehren der allgemeinen und | Mineral=Chemie, | welche | in dem Freyberger academischen Lehr- | kurse von 1808-1809. ausgestellt | wurden, | nach eigenen Beobachtungen ge- | sammelt | und herausgegeben | von | Johannes Breisig | [...3 lines of titles and memberships...] | [rule] | Erster Band | Die Experimente über allgemeine Chemie | enthaltend. | [rule] | Freyberg, 1809. | bey Craz und Gerlach.

2 vols. [VOL 1: 1809] 8°: a-c8 d10 A-Cc8 Dd4; 246ℓ.; [i]-lxviii, [1]-423, [1] p. [VOL 2: 1810] 8°: a8 b4 A-Oo8; 308ℓ.; [i]-xxiv, [1]-592 p.

CONTENTS: [Vol 1] [i-ii], Title page, two lines of quotation from Pliny.; [iii-viii], Dedication.; [ix]-xii, "Vorrede | von Herrn Prof. Lampadius."—signed Wilhelm August Lampadius, 1808.; [xiii]-xviii, "Vorrede

LAMPERT

des Verfassers.”; xix-lxvi, “Verzeichniß | der | in diesem Werke beschriebenen Versuche.”; lxvii-lxviii, “Errata.”; [1]-423, Text.; [1 pg], Publisher’s list. [Vol 2] [i-ii], Title page, verso blank.; [iii]-iv, “Vorrede.”—signed Wilhelm August Lampadius, August 1810.; v-xxiv, “Inhalts=Verzeichnis.”; [1]-592, Text.

RARE. Edited by Johannes Breisig. This is an excellent reference work in the field of theoretical and practical research of mineral chemistry and manufacturing techniques performed from 1808 to 1809 in the chemical laboratory of the Freiberg Bergakademie.

REFERENCES: LKG: XI 24b. • NUC: [no copy listed].

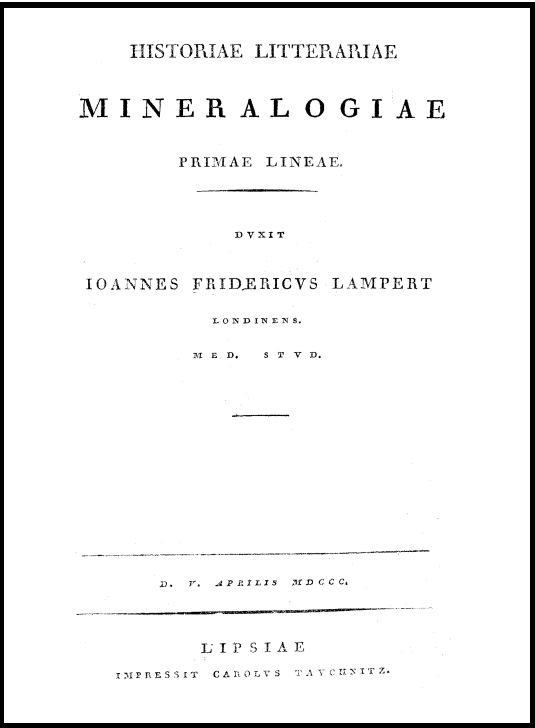
**2879. Supplement, 1816:** Neue | Erfahrungen | im Gebiete | des | Chemie und Hüttenkunde, | gesammelt | im chemischen Laboratorio zu Freiberg und in den | Hüttenwerken und Fabriken Sachsens in den | Jahren 1808–1815 | von | W.A. Lampadius, | [...2 lines of titles and memberships...] | [rule] | Mit 7 Kupfertafeln. | [tapered rule] | Weimar, | im Verlage des Cr.H.S. priv. Landes=Industrie=Comptoirs. | 1816.

8°: π<sup>3</sup> A-N<sup>8</sup> O-P<sup>4</sup> Q<sup>2</sup>; 116ℓ.; [i]-viii, [1]-224 p., 5 folding plates, folding tables at pages 32, 116, and 126.

CONTENTS: [i-ii], Title page, verso blank.; [iii], Dedication.; [iv], Blank.; [v]-vi, “Vorrede.”—dated April, 1815.; [vii]-viii, “Inhalt.”; [1]-224, Text.

RARE. Supplemental volume to the author’s *Erlanternde Experimente* (2 vols., Freyberg, 1809) and describing experiments and observations in mineral chemistry and manufacturing from 1808 to 1815.

REFERENCES: Dana’s 7th (Bibliography): 75. • NUC: [no copy listed].



HISTORIAE LITERARIAE MINERALOGIAE, 1800

**LAMPERT, Joannes Fridericus.** *English medical student.*

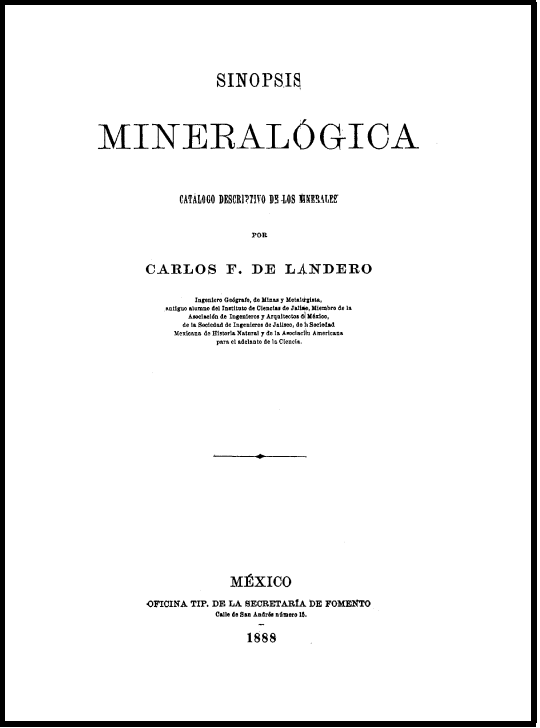
REFERENCES: ADB.

**2880. — Latin, 1800** [First edition].

Historiae Litterariae | Mineralogiae | Primae Lineae. | [tapered rule] | Dvxit | Ioannes Fridericvs Lampert | Londinens. | Med. Stvd. | [short rule] | [rule] | D. V. Aprilis MDCCC. | [tapered rule] | Lipsiae | Impressit Carolvs Tavchnitz. 8°:

VERY RARE. This is apparently a history of mineralogy. Only the 1879 library catalog of the Freiberg Bergakademie lists this title in their holdings, even though a great deal of effort went into locating other copies.

REFERENCES: *Katalog Bergakademie Freiberg*, 1879: p. 385 [VI.27.]. • LKG: I 22.



SINOPSIS MINERALÓGICA, 1888

**LANDERO Y COS, José F. de.** (BORN: 1831; DIED: 1912) *Mexican mineralogist & geologist.*

Landero was director general of mines of Pachuca.

REFERENCES: ABE: I 490, 154. • *Diccionario Porrúa*: 3, 1954. • WBI.

**2881. — Spanish, 1888.**

Sinopsis | Mineralógica | ó | Catálogo Descriptivo De Los Minerales | Por | Carlos F. De Landero | [...6 lines of titles and memberships...] | [ornate rule] | México | Oficina Tip. De La Secretaría De Fomento

| Calle de San Andrés número 15. | [short rule] | 1888.

8°: [2], vii, [9]-528 p.

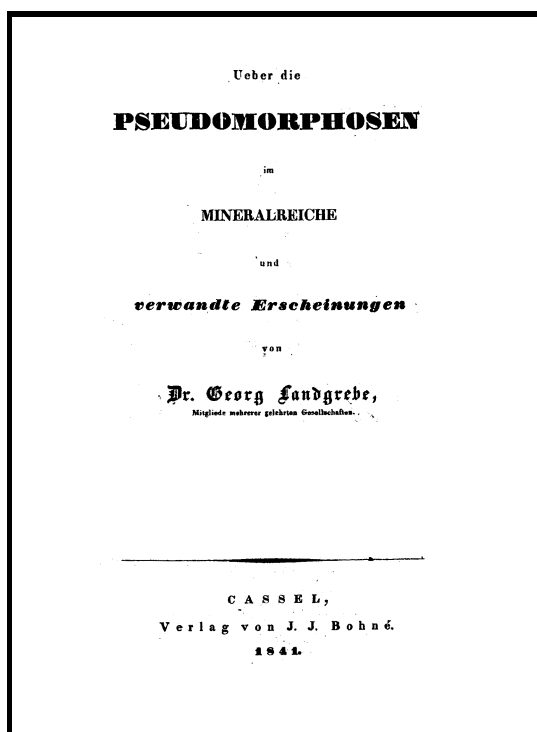
VERY SCARCE. The first portion of this synopsis of mineralogy, provides definitions of basic principals and techniques, including crystal forms, optical, chemical and physical properties, nomenclature and classification. The second part gives a descriptive mineralogy with emphasis on mineral species found in Mexico.

REFERENCES: Dana's 7th (Bibliography): 75. • NUC: 314, 50 [NL 0065384].

**LANDGREBE, Georg.** (BORN: Cassel, Germany, 10 June 1802; DIED: 1872) *German chemist.*

Landgrebe was a Privatdocent at the University of Marburg from 1826 to 1837 before entering industry as a fabricator of chemicals in Cassel, Germany.

REFERENCES: ADB. • DBA: I 733, 397; II 783, 131. • Ferchl: 294. • Poggendorff: 1, cols. 1365-6 & 3, 770. • WBI.



UEBER DIE PSEUDOMORPHOSEN, 1841

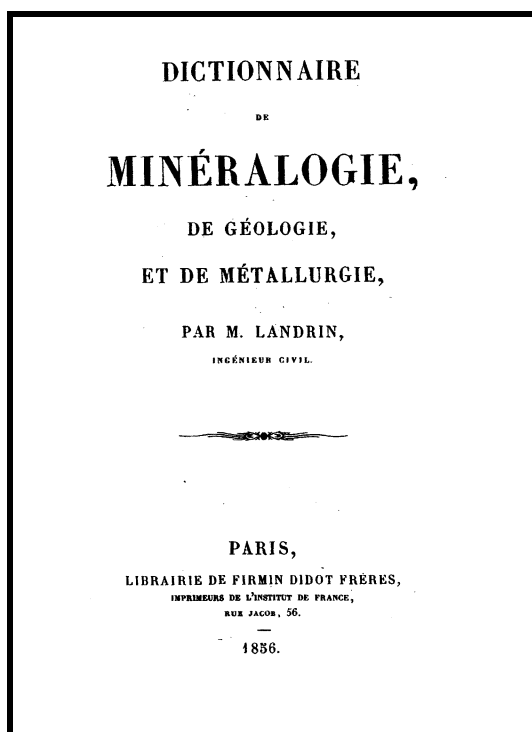
2882. — German, 1841.

Ueber die | Pseudomorphosen | im | Mineralreiche  
| und | verwandte Erscheinungen | von | Dr.  
Georg Landgrebe, | Mitglieder mehrerer gelehrten  
Gesellschaften. | [tapered rule] | Cassel, | Verlag  
von J.J. Bohné. | 1841.

8°:  $\pi^4$  1-21<sup>8</sup> 224; 176 $\ell$ .; [i]-viii, [1]-343, [1] p. PAGE  
SIZE: 184 x 120 mm.

CONTENTS: [i-ii], Title page, verso blank.; [iii]-iv,  
"Vorwort"—dated September 1840.; [v]-viii, "Inhalt."; [1]-  
343, Text, on page 343, "Druck und Papier von Jérôme  
Hotop in Cassel."; [1 pg], Blank.

VERY SCARCE. In the forward, Landgrebe writes  
that mineralogy has no field of study more interesting  
than pseudomorphs, the subject of this book. The text  
begins with a short introduction that clearly defines  
pseudomorphs. The work is then divided into two  
large parts. The first covers mineral pseudomorphs  
and contains sections on mineral casts (pp. 8-24) and  
mineral metamorphosis through chemical exchange (pp.  
25-245). The second part (pp. 246-343) describes the  
chemical transformation that occurs to create petrified  
wood and fossilized bones and plants. Incorporated  
within the body of the text are all references to  
pseudomorphs that the author discovered conducting  
a systematic review of both German and foreign  
mineralogical literature.



DICTIONNAIRE DE MINÉRALOGIE, 1856

LANDRIN, Henri.

2883. — French, 1852 [First edition].

Dictionnaire | De | Minéralogie | De Géologie | et  
de Métallurgie | Par M. Landrin | Ingénieur Civil  
| [ornate rule] | Paris | Librairie De Firmin Didot  
Frères, | Imprimeurs De l'Institut De France, |  
Rue Jacob, 56. | [rule] | 1852.

8°:  $\pi^1$  a<sup>6</sup> b-d<sup>6</sup> 1-42<sup>6</sup> 431; 278 $\ell$ .; [2], [1]-XLVIII,  
[1]-506 p.



## LANG

CONTENTS: [2 pgs], Title page, verso blank.; [I]-XLVIII, "Introduction."; [1]-506, Text.

**RARE.** A standard but still useful dictionary providing definitions and synonyms to terms found in mineralogy, geology and metallurgy. It gives an alphabetical listing of all the terminology to these subjects with a detailed introductory essay explaining the derivations of the nomenclature. Under many of the defined terms, references are given to the older literature. This dictionary is somewhat more comprehensive than other similar works of the era.

REFERENCES: NUC.

**2884. Another issue, 1856:** Dictionnaire | De | Minéralogie | De Géologie | et de Métallurgie | Par M. Landrin | Ingénieur Civil | [ornate rule] | Paris | Libraire De Firmin Didot Frères, | Imprimeurs De l'Institut De France, | Rue Jacob, 56. | [rule] | 1856.

8°:  $\pi^1$  a\*<sup>6</sup> b-d<sup>6</sup> 1-42<sup>6</sup> 43<sup>1</sup>; 278 $\ell$ .; [2], [I]-XLVIII, [1]-506 p. PAGE SIZE: 150 x 90 mm. VERY SCARCE.

CONTENTS: [2 pgs], Title page, verso blank.; [I]-XLVIII, "Introduction."; [1]-506, Text.

REFERENCES: NUC.

**2885. Another issue, 1864:** Dictionnaire | De | Minéralogie | De Géologie | et de Métallurgie | Par M. Landrin | Ingénieur Civil | [ornate rule] | Paris | Libraire De Firmin Didot Frères, Fils et C<sup>ie</sup> | Imprimeurs de l'Institut, rue Jacob, 56 | 1864.

12° (in 6s):  $\pi^2$  a\*<sup>6</sup> b-d<sup>6</sup> 1-42<sup>6</sup>; 278 $\ell$ .; [4], [i]-xlviii, [1]-504 p. PAGE SIZE: 184 x 116 mm. VERY SCARCE.

CONTENTS: [2 pgs], Half title page, "Dictionnaire | de | Minéralogie | de Géologie | et de Métallurgie," verso "Typographie de H. Firmin Didot.—Mesnil (Eure)."; [2 pgs], Title page, verso blank.; [i]-xlviii, "Introduction."; [1]-504, Text.

REFERENCES: NUC. • Roller & Goodman, *Catalogue*, 1976.

**LANG, Carl Nicolaus.** (BORN: Lucern, Switzerland, 18 February 1670; DIED: Lucern, Switzerland, 2 May 1741) *Swiss physician, geologist & paleontologist.*

Lang received his M.D. in Rome in 1692. He practiced medicine in Lucern from 1609, and was elected a member of French Academy of Sciences and the Leopoldin Society. He founded the Lucern Museum of Natural History.

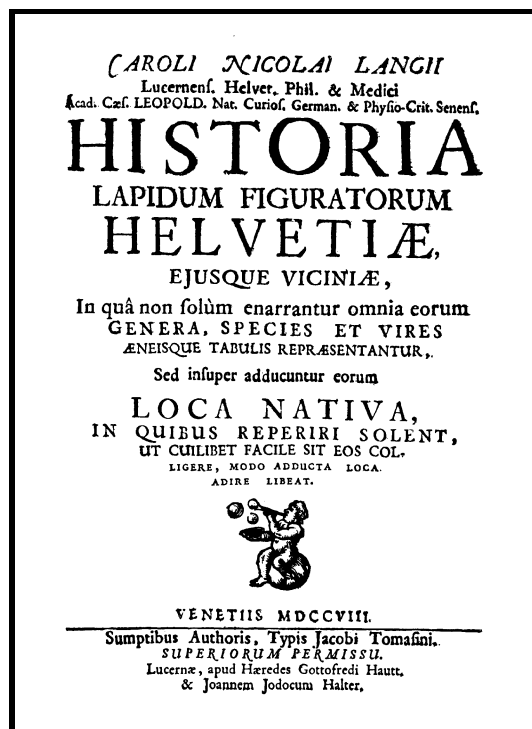
REFERENCES: Bachmann, H., "Karl Nikolaus Lang, Dr. Phil. et Med., 1670-1741," *Geschichtsfreund*, 51 (1896), 167-280. • DBA: I 734, 462-463. • DSB: 8, 4 [by P.A. Gerstner]. • *Nouvelle Biographie Générale* (Hoefer): 29, 381-2. • Poggendorff: 1, col. 1368. • Sarjeant, *Geologists*, 1980: 3, ?? . • WBI. • Wilson, *History of Mineral Collecting*, 1994: 179.

### 2886. — Latin, 1722.

Caroli Nicolai Langii Methodus nova & facilis testacea marina pleraque quæ huc usque nobis nota sunt, in suas debitas & distinctas classes, genera, & species distribuendi, nominibusque suis propriis structuræ potissimum accommodatis nuncupandi. Lucernæ, Sumptibus Authoris, typis Henrici Rennvardi Wyssing, 1722.

4°: xxiii, 102 p. Indexes in Latin, German and French.

**RARE.** An early palaeontological work, describing fossil shells and other mollusks, together with Lang's new method to describe and name the species.



HISTORIA LAPIDUM FIGURATORUM HELVETIÆ, 1708

REFERENCES: BL: [no copy listed]. • Wellcome Catalog (Books).

### 2887. — Latin, 1708.

Caroli Nicolai Langii | [...2 lines of titles and memberships...] | Historia | Lapidum Figuratorum | Helvetiæ, | Ejusque Viciniæ, | In quâ non solum enarrantur omnia eorum | Genera, Species Et Vires | Æneisque Tabulis Representantur, | Sed insuper adducuntur eorum | Loca Nativa, | In Quibus Reperiri Solent, | Ut Cuilibet Facile Sit Eos Col- | ligere, modo adducta loca. | Adire Libeat. | [ornament] | Venetiis MDCCVIII. | [rule] | Sumptibus Authoris, Typis Jacobi Tomasini. | Superiorum Permissu. | Lucernæ, apud Hæredes Gottofredi Hautt. | & Joannem Jodocum Halter.

4°: [30], 165, [1] p., engraved title page page, 54 engraved plates (fossils and minerals), text illus.

**RARE.** One of the earliest studies of Swiss mineralogy and paleontology, this work describes the figured stones, minerals and fossils of the country. Lang was an aggressive collector who amassed a large collection of natural history objects found in his native land. These formed his "Museum Lucernense Langianum" which included preserved plants, animals and birds, as well as a large component of mineralogical objects.<sup>[1]</sup> In this work Lang provides original descriptions of many of them.

For this work, Lang choose his best specimens for

illustration. Lang was a proponent of the formation of fossils within the rocks. He believed that the fossils had developed from moist seed-bearing vapors which had risen from the seas and entered into the earth's strata and strongly argued against the diluvialists that fossils were the result of the "Great Flood". Lang's fossil descriptions and theories were used by Beringer in his ill-fated 1726 work "Lithographia Wurceburgensis". The beautifully engraved title frontispiece page drawn by the artist Besutius and engraved by Blancus shows a collection of mineral and fossil cabinets. The plates illustrate minerals, fossil vertebrates and invertebrates, and fossil plants.

Hoover 505; Ward & Carozzi 1321. A very scarce work on the minerals and fossils of Switzerland. In 1735 a small supplement with 10 pages and 1 plate was published. Lang was one of the last authors who believed in the direct origin of the fossils in the rocks and particularly argued against the conception of the diluvialists that fossils were animals destroyed by the Flood. "Lang's fossil descriptions were used and his theories discussed by Beringer, and Lang is said to have been a colleague of Scheuchzer. Yet the closeness of the relationship with Scheuchzer is open to question since the latter was a diluvialist" (D.S.B. VIII, p. 4). The beautifully engraved frontispiece drawn by Ambrosius Besutius and engraved by Paulus Blancus shows a geological cabinet, containing minerals and fossils. "The physician and senator Karl Lang (1670-1741) established his 'Museum Lucernense Langianum', in Lucerne; it contained mostly minerals and fossils. In 1858 it was purchased by the Natural History Museum of Lucerne" (Wilson. The History of Mineral Collecting p. 119). The plates show minerals, fossil plants, fishes, a human skeleton, and shells. A good copy.

= Ward and Carozzi, 1321; Nissen ZBI, 2375.

A very rare work on the fossils of Switzerland with the beautifully engraved frontisp. showing a mineral Cabinet, drawn by A. Besutius and engraved by Blanus. The plates depict minerals, fossils, plants, fishes and mainly shells and one plate gives a view of the famous Mons Pilatus by Melchior Füessli which was one of the first mountains to be described in a mineralogical way. See also DSB vol.8 p.4.

NOTES: [1] Wilson (1994): The collection was acquired by the Natural History of Lucern (which Lang founded) in 1858.

REFERENCES: Darmstädter, *Steinbücher*, 1934: [p. 270].  
• *Freilich Sale Catalog*: no. 331. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 171-2. • Geikie, *Founders of Geology*, 1905: p. 98. • Hoover Collection: no. 505. • LKG: XIV 468. • Studer, *Geschichte Geographie Schweiz*, 1863.: 209. • Ward & Carozzi, *Geology Emerging*, 1984: no. 1321. • Zittel, *Geschichte der Geologie*, 1899: 20ff..

## 2888. — Latin, 1735 [Supplement].

Appendix ad Historiam lapidum figuratorum Helvetiæ, ejusque viciniae, de miro quodam achate qui coloibus suis imaginem Christi in cruce morientis repræsentat, cujus occasione quoque de alijs mirabilibus, tam achatum, quàm allorum

lapidum figuris breviter agitur ... cum exactâ descriptione lapidis cruciferi seu cruciati ... [n.p.]: Typis monsterij Einsidlensis, per M. Eberlin, 1735.

4°: A<sup>4</sup> B<sup>2</sup>; 6ℓ.; [2], [1]-10 p.

CONTENTS: [2 pgs], Title page, verso "Benedicte..."; [1-2], "Præfatio."; [3]-10, Text.

VERY RARE. Appendix to the author's *Historia lapidum figuratorum Helvetiæ* (Venetiis, 1708).

REFERENCES: Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 172. • *Leipziger gelehrte Zeitung*: 1736, 331. • LKG: XIV 468 & XVI 182.

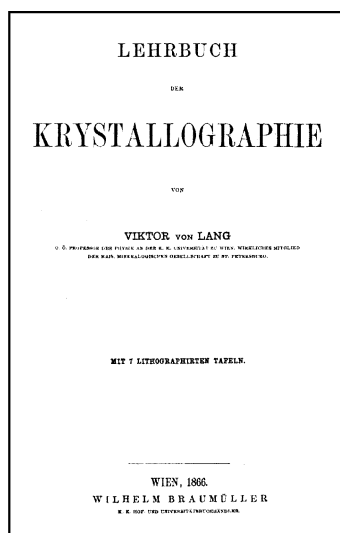
## 2889. — Latin, 1709.

Caroli Nicolai Langii | [...2 lines of titles and memberships...] | Tractatus | De | Origine | Lapidum Figuratorum | in quo diffusè differitur, utrum nimirum sint | Corpora Marina A Diluvio Ad Montes Translata, | & tractu temporis petrificata | vel an | A Seminio Quodam E Materia Lapidescente | intra terram generentur, | Quibus accedit accurata | Diluvii, | Ejusque In Terra Effectuum | Descriptio cum Dissertatione | De Generatione Viventium, | Testaceorum præcipuè, plurimorumq; corporum, | à vi plasticâ auræ seminalis hinc inde delatæ | extra consuetam matricem | productorum. | [ornament] | Lucernæ, MDCCIX. | [rule] | Sumptibus Authoris, Typis Annæ Felicitatis Hautt. | Superiorum Permissu.

4°: [8], 80 p.

RARE. Paleontology. A tract on the origin of figured stones in all their diversity and incorporating plants and animals of the land and sea. Compares his own theories to the biblical deluge, and puts forth ideas on the generation of fossils in rock.

REFERENCES: *Freilich Sale Catalog*: no. 332. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 172. • Hoover Collection: no. 506. • LKG: XVII 15. • Ward & Carozzi, *Geology Emerging*, 1984: no. 1322.



LEHRBUCH, 1866

**LANG, Viktor von.** (BORN: 1838; DIED: 1921) *German physicist.*

REFERENCES: DBA: I 735, 167-168. • WBI.

**2890. — German, 1866.**

Lehrbuch | Der | Krystallographie | Von | Viktor von Lang | [...2 lines of titles and memberships...] | Mit 7 Lithographien Tafeln. | [rule] | Wien, 1866. | Wilhelm Braumüller | K.K. Hof- Und Universitätsbuchhändler.

8°: [i]-vii, [1], [1]-358 p., 7 lithographic tables (folding).

CONTENTS: [i-ii], [Half title page, verso blank?] (missing from copy examined.); [iii-iv], Title page, verso "Druck von C. Ueberreuter in Wien."; [v]-vi, "Vorwort."; [vii], "Inhalt."; [viii], Blank.; [1], Sectional title page, "Lehrbuch | Der | Krystallographie."; [2], Blank.; [3]-352, Text.; [353]-358, "Anhang."; [At end], 7 plates.

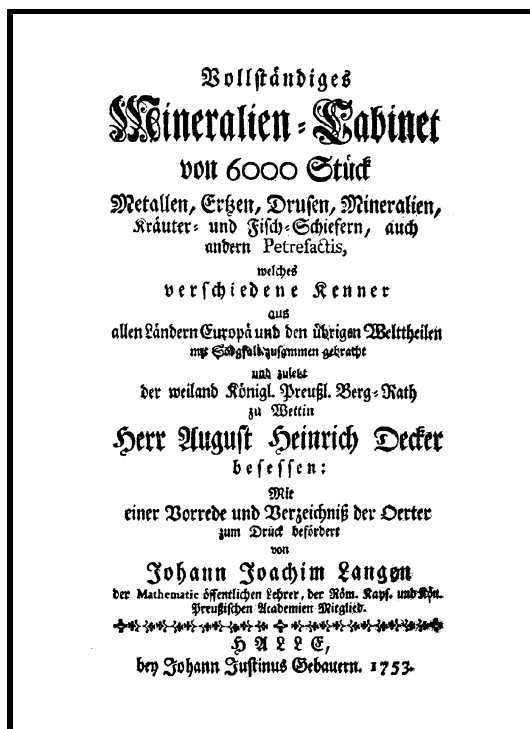
VERY SCARCE. Comprehensive textbook of crystallography, of an advanced nature, that covers in depth crystallographical systems and projections of crystals. At the end are given an interesting section that shows the derivation of the crystallographical notational systems of Naumann and Lévy. The plates at end show crystal drawings and projections of various types. The steps required to make projections and crystal drawings are covered on pages 243-289.

REFERENCES: NUC.

**LANGE, Johann Joachim.** (BORN: Halle, Germany, c1698; DIED: Halle, Germany, 18 August 1765) *German mathematician.*

Lange was professor of philosophy and mathematics at the University of Halle from 1723 until his death. He was also a corresponding member of the Berlin Academy of Science.

REFERENCES: ADB. • Jöcher, *Gelehrten-Lexikon*, 1750-51. • Meusel, *Verstorbenen Deutschen Schriftsteller*, 1802-16. • Poggendorff: 1, cols. 1368-9. • WBI.



VOLLSTÄNDIGES MINERAL-CABINET, 1753

**2891. — German, 1753** [Collection catalog].

Vollständiges | Mineralien=Cabinet | von 6000 Stück | Metallen, Erzen, Drusen, Mineralien, | Kräuter= und Fisch=Schiefern, auch | andern Petrefactis, | welches | verschiedene Kenner | aus | allen Ländern Europä und den übrigen Welttheilen | mit Sogfalt zusammen gebracht | und zuletzt | der weiland Königl. Preußl. Berg=Rath | zu Wettin | Herr August Heinrich Decker | besessen; | Mit | einer Vorrede und Verzeichniß der Oerter | zum Druck befördert | von | Johann Joachim Lange | [...2 lines of title and memberships...] | [ornate rule] | Halle, | bey Johann Justinus Gebauern. 1753.

8°: a-c8 d4 A-H8 I2; 67ℓ.; [28], [1]-132 p.

CONTENTS: [2 pgs], Title page, verso blank.; [10 pgs], "Vorrede."—signed Johann Joachim Lange, 13 January 1753.; [16 pgs], "Verzeichniß der Titul."; [1]-132, Text.

VERY RARE. Collection catalog of August Heinrich Decker's [see note below] mineral collection, consisting of over 6,000 specimens of metals, ores, druses, fossils, gems, dried herbs, and preserved fish. Lange provides a forward describing the contents of the cabinet. Inspector Voigtel (?) provides a further geographical index to the localities of the specimens described in the work. This makes the work more useful than the typical collection catalog.

**August Heinrich Decker.** (BORN: 1685; DIED: 1752) *Prussian mining expert.* Royal Prussian Mining

Commissioner at Wettin. He built a large mineral collection of over 6,000 specimens.

REFERENCES: BL: [972.g.8.]. • Cobres, *Deliciae Cobresianae*, 1782: 1, 132. • Freiesleben, *Sächsische Mineralien-Verzeichnisse*, 1828: no. 17. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 263. • *Jenaische gelehrte Zeitungen*: 1753, 288. • LKG: XV 15. (Decker) NDB. • WBI. • Wilson, *History of Mineral Collecting*, 1994: 167.

Lithographia Halensis. Quam Præs J.J. Langio ... Publice Defendet Auctor J.C.D. Schreber ... (Halae, 1758).

See: Schreber, Johann Christian Daniel.

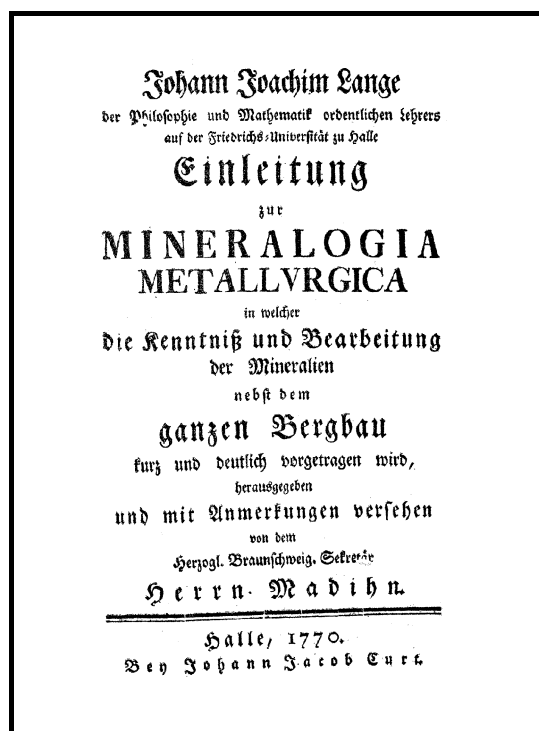
## 2892. — Latin, 1756.

Dissertatio Inauguralis-Philosophica qua Genesis Lapidum Variis Observationibus Illustratur ... praeside ... Ioanne Ioachimo Langio ... respondente Wilhelmo Mallinckrodt ... Halae Magdeburgicae, 1756.

4°: 30, [2] p.

VERY SCARCE. Dissertation for the University of Halle/Salle — Wilhelm Mallinckrodt, respondent.

REFERENCES: BL. • LKG: XIII 85. • NUC: [no copy listed].



EINLEITUNG, 1770

## 2893. — German, 1770.

Johann Joachim Lange | [...2 lines of titles and memberships...] | Einleitung | zur | Mineralogia | Metallurgica | in welcher | die Kenntniß und Bearbeitung | der Mineralien | nebst dem | ganzen Bergbau | kurz und deutlich vorgetragen wird, |

herausgegeben | und mit Anmerkungen versehen | von dem | herzogl. Braunschweig. Sekretär | Herrn Madihn. | [double rule] | Halle, 1770. | Bey Johann Jacob Curt.

8°: \*4 A-S8; 148ℓ.; [8], [1]-288 p.

CONTENTS: [2 pgs], Title page, verso blank.; [2 pgs], "Vorrede."; [4 pgs], "Inhalt."; [1]-288, Text.

RARE. Edited by Julius Johann Madihn [see note below] from manuscript material found in the effects of Lange after his death. After the introduction the text is divided into three parts. The first covers the physical and chemical aspects of mineralogy. Topics covered include the principals by which minerals form, earths, stones, salts, coal, sulfur compounds, semimetals, arsenic, zinc, bismuth, cobalt, antimony, mercury, whole metals, lead, tin, iron, copper, silver, gold, saltpeter, etc. The second part covers mechanical mineralogy and includes descriptions metal deposits and the formation of deposits and methods of mining. A supplement in five chapters completes this section. Finally, the third part covers metallurgy and assaying, with descriptions of metal reduction and purification.

Julius Johann Madihn. (BORN: 1734; DIED: 1789)

German mining expert.

[ BIOGRAPHY NEEDED ]

REFERENCES: *Berlinische Sammlungen*: 3 (1770), 654. • BL: [953.a.18.]. • BMC. • Cobres, *Deliciae Cobresianae*, 1782: 2, 703. • Darmstädter, *Berg-Büchlein*, 1926: p. ?? • NUC: [no copy listed]. (Madihn) Meusel, *Verstorbenen Deutschen Schriftsteller*, 1802-16. • WBI.

## LAPHAM, Increase Allen. (BORN: 1811; DIED: 1875)

American geographer & archaeologist.

REFERENCES: ABA: I 937, 339-347. • Adams, *Dictionary of American Authors*, 1904. • Appleton *Cyclopedia of American Biography*. • Drake, *Dictionary of American Biography*, 1872. • Herringshaw's *National Library of American Biography*. • *National Cyclopedia of American Biography*. • WBI.

## 2894. — English, 1846 [2nd edition].

Wisconsin: | Its | Geography And Topography, | History, Geology, and Mineralogy: | Together With | Brief Sketches Of Its Antiquities, Natural | History, Soil, Productions, Population, | And Government. | [wavy rule] | By I.A. Lapham. | [wavy rule] | Second Edition, Greatly Improved. | [tapered rule] | Milwaukee, I.A. Hopkins, 146 U.S. Block. | New York:—Paine & Burgess, And Saxton & Miles. | St. Louis:—Nafis, Cornish & Co. | [short rule] | 1846.

8°: [i]-viii, 9-208 p.

CONTENTS: [i-ii], Title page, verso "Entered according to Act of Congress, ..."; iii-iv, "Preface."; v-viii, "Contents."; [9]-202, Text.; [203]-208, "Catalogue Of Books."

VERY SCARCE. The first edition was the first bound book printed in Milwaukee in 1844 see Ward & Carozzi. Lapham's "A Catalogue of Plants and Shells found in the Vicinity of Milwaukee" (1836) was the first Wisconsin imprint. Lapham was one of the earliest

## LAPPARENT

and best mapmakers of Wisconsin, and was involved in Native American archaeology in that territory. He was a founder of the Wisconsin State Historical Society and the Wisconsin Academy of Sciences, Arts, and Letters.

REFERENCES: Howes: no. L97. • Sabin, *Dictionary*, 1868-1936: no. 38979. • Ward & Carozzi, *Geology Emerging*, 1984: no. 1327.

## LAPIDAIRE.

Lapidaire. [Lugduni (Lyon), Guilelanus Le Roy, 1477].

See: Mandeville, John.

**LAPPARENT, Albert-Auguste Cochon de.** (BORN: Bourges, France, 30 December 1839; DIED: Paris, France, 4 May 1908) *French geologist & mineralogist.*

From 1858 to 1860, Lapparent studied at the École Polytechnique, becoming an engineer in the Corps of Mines, and participating in drawing up a geological map of France. In 1875, he was appointed professor of geology and mineralogy at the Catholic Institute in Paris, where he remained. Lapparent was elected president of the French Geological Society in 1880. For his work Lapparent received many honors and was among others awarded a honorary doctorate by Cambridge University.

REFERENCES: ABF: I 236, 1-2; 1056, 314; II 414-422. • *Annales de Géographie*: 17 (1909), no. 94, 344-7 [by E. de Margerie]. • Barr, *Index to Biographical Fragments*, 1973: 149. • Cleavelly, *World Palaeontological Collections*, 1983: 179. • DSB: 8, 30-1 [by A. Cailleux]. • *Encyclopaedia Britannica*, 11th edition. • *Geological Magazine*: 45 (1908), no. 7, 334. • Kettner, Radim., "Albert de Lapparent (1839, +1908)," *Casopis pro Mineralogii a Geologii*, 3 (1958), no. 3, 375-7, portrait. • Lacroix, Alfred., "Notice historique sur Albert-Auguste de Lapparent" in: *Académie des Sciences*. Paris, 1920. • Lacroix, *Figures des Savants*, 1932-8: 2, 187-222, plates 10-11. • Lambrecht & Quenstedt, *Catalogus*, 1938: 251. • *Mineralogical Magazine*: 15 (1909), no. 70, 265-6 [by L.J. Spencer]. • Poggendorff: 3, 775, 4, 839 & 5, 274. • *Proceedings of the Geological Society*, London: 1908-9, p. lxxviii-lxx [by W.J. Sollas]. • Sarjeant, *Geologists*, 1980: 3, 1518 & Suppl. 1 (1986), 2, 578. • WBI. • *World Who's Who in Science*: 436.

**2895. — French, 1884** [First edition].

Cours | De | Minéralogie | Par | A. De Lapparent | [...2 lines of titles and memberships...] | Avec 519 Gravures Dans Le Texte | et une planche chromolithographiée | [ornament] | Paris | Librairie F. Savy | 77, Boulevard Saint-Germain, 77 | [short rule] | 1884.

8°: [4], [I]-XII, [1]-560 p., 519 illus., one chromolithographic plate (crystal uniaxes and biaxes).

CONTENTS: [2 pgs], Half title page, "Cours | De | Minéralogie," verso advertisements.; [2 pgs], Title page, verso blank.; [I]-IV, "Préface.;" [V]-XII, "Table Des Matières.;" [1]-524, Text.; [525]-560, "Lexique | Des Noms D'Espèces Et De Variétés | Employés En Minéralogie."

VERY SCARCE. Lapparent's *Cours de Minéralogie* was based on the ideas, then underestimated, of Bravais and of Mallard. This book is important because it is the first to be based on the important work of these two French crystallographers therefore offering new and powerful techniques for crystallography. In it, the mathematics of symmetry were practically applied for the first time to the theory of solids.

After a short introduction, the text is divided into three major sections: Geometrical Crystallography (p.

13-184), Physical Crystallography (p. 185-296), and the Descriptions of the Mineral Species (p. 297-524). A comprehensive index to the topics and mineral species mentioned concludes the book.

REFERENCES: Dana's 7th (Bibliography): 75. • DSB: 8, 30-1. • *Encyclopaedia Britannica*, 11th edition. • NUC. • *USGS Library Catalog*.

**2896. 2nd edition, 1890:** Cours | De | Minéralogie | Par | A. de Lapparent | [...2 lines of titles and memberships...] | Deuxième Édition | Revue Et Tres Augmentée | Avec 598 Gravures Dans Le Texte | Et Une Planche Chromolithographiée | Paris | Librairie F. Savy | [...one line of address...] | [short rule] | 1890.

8°: xvi, 647 p., 598 illus., one chromolithographic plate (crystal uniaxes and biaxes). Revised and enlarged edition. PAGE SIZE: 165 x 250 mm. VERY SCARCE.

REFERENCES: BL. • NUC.

**2897. 3rd edition, 1899:** Cours de Minéralogie ... Paris, 1899. 8°: 702 p., 619 illus., one chromolithographic plate (crystal uniaxes and biaxes). VERY SCARCE.

REFERENCES: NUC.

**2898. 4th edition, 1908:** Cours | De | Minéralogie | Par | A. De Lapparent | [...2 lines of titles and memberships...] | Quatrième Édition | Revue Et Corrigée | [rule] | Avec 630 Gravures Dans Le Texte | Et Une Planche Chromolithographiée | [rule] | Paris | Masson Et Cie, Éditeurs | Libraires De L'Académie De Médecine | 120, Boulevard Saint-Germain | [rule] | 1908.

8°: 756 p., 630 illus., one chromolithographic plate (crystal uniaxes and biaxes).

VERY SCARCE. This *Course on Mineralogy* treats in the first sections a thorough treatment of geometrical and physical crystallography, while another section is a descriptive mineralogy, employing a lexicon of the names of species and varieties employed known in the science.

Sections: 1. Cristallographie Géométrique. 2. Cristallographie Physique. 3. Description des Espèces Minérales.

REFERENCES: BL. • NUC.

**2899. — French, 1910.**

La philosophie minérale les theories de la matière, la cristallographie, les vicissitudes de la préhistoire, l'ancienneté de l'homme et les glaciers. Paris, Bloud, 1910.

8°:

VERY SCARCE. Lapparent's *Mineral Philosophy* speculates on all aspects of the earth, including the early history of the earth, general theories of matter, crystallography, glaciers, mankind's reason for being, etc.

REFERENCES: BL. • NUC.

**2900. — French, 1889** [First edition].

Précis | De | Minéralogie | Par | A. De Lapparent | [...2 lines of titles and memberships...] | Avec 335 Gravures Dans Le Texte | Et Une Planche Chromolithographiée | Paris | Librairie F. Savy | 77, Boulevard Saint-Germain, 77 | [short rule] | 1889.

8°: [i]-xi, [1], [1]-383, [1] p., one chromolithographic plate (showing optical interference figures), 335 illus. PAGE SIZE: 187 x 125 mm.

CONTENTS: [i-ii], "Précis | De | Minéralogie," verso "Du Même Auteur" (=list of other works by the author); [iii-iv], Title page, verso blank.; [v]-xi, "Table Des

Matières.”; [1 pg], “Erratum.”; [1]-514, Text.; [515]-541, “Appendice.”; [542]-583, “Lexique | Des Noms D’Espèces Et De Variétés | Usités En Minéralogie.”; [1 pg], Blank.; [At end], one colored plate.

VERY SCARCE. A late nineteenth century French textbook that gives much useful information on the crystallography and properties of minerals, including a long descriptive mineralogy in a small volume. It is well illustrated with the inclusion of 335 mostly crystal diagrams that accompany the mineral descriptions. At the conclusion is a long lexicon of the species names and varieties mentioned in the text.

REFERENCES: BL. • NUC.

**2901. 2nd edition, 1894:** Précis de Minéralogie, par A. de Lapparent ... 2e édition ... Paris, F. Savy, 1894.

18°: XI, 384 p., one chromolithographic plates, illus.

VERY SCARCE.

REFERENCES: BL. • NUC.

**2902. — French, 1898** [3rd edition].

Précis de minéralogie. 3ème éd. rev. et cor. Paris, Masson et cie, 1898.

390 p., fold. col. pl., diagsr.

VERY SCARCE. 1. Cristallographie—2. Description des espèces minérales.

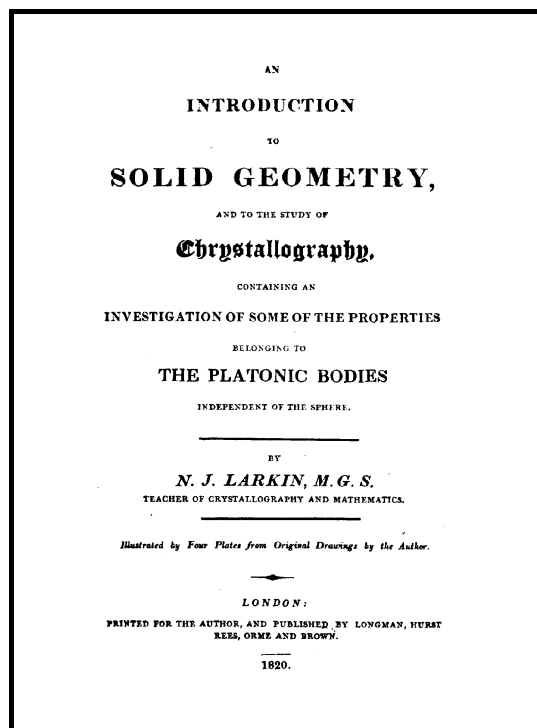
REFERENCES: BL. • NUC. • *USGS Library Catalog*.

**2903. — French, 1908** [5th edition].

Précis de minéralogie. 5. éd. rev. et cor. Paris, Masson et cie, 1908.

xi, 413 p. : col. ill. VERY SCARCE.

REFERENCES: NUC. • *USGS Library Catalog*.



INTRODUCTION, 1820

**LARKIN, Nathaniel John.** *English mathematician.*

REFERENCES: BBA: I 665, 39. • Boase, *Modern English Biography*, 1892-1921. • WBI.

**2904. — English, 1820.**

An | Introduction | To | Solid Geometry, | An To The Study Of | Crystallography, | Containing An | Investigation Of Some Of The Properties | Belonging To | The Platonic Bodies | Independent Of the Sphere. | [rule] | By | N.J. Larkin, M.G.S. | Teacher Of Crystallography And Mathematics. | [rule] | Illustrated by Four Plates from Original Drawings by the Author. | [tapered rule] | London: | Printed For The Author, And Published By Longman, Hurst, | Rees, Orme and Brown. | [rule] | 1820.

12°:  $\pi^8$  A-I6  $\chi^1$ ; 79 $\ell$ .; [i]-xvi, [1]-140, [2] p., 4 plates (folding; one colored; showing xl digrms). PAGE SIZE: 206 x 132 mm.

CONTENTS: [i-ii], Title page, verso “Printed by W. Molineux, | 5, Bream’s Buildings, Chancery Lane.”; [iii], Dedication to G.B. Greenough.; [iv], Blank.; [v]-xi, “Preface.”—signed N.J. Larkin, 3 February 1820.; [xii], “Sets of Solids to accompany this work ...”; [xiii]-xvi, “Contents.”; [1]-130, Text.; [131], “Appendix. | By | P.M. Roget, M.D. F.R.S. &c. &c.”; [132], Blank.; [133]-140, Text of problems I-IV.; [1 pg], Errata.; [1 pg], Blank.; [At end], 4 plates.

VERY SCARCE. The text provides definitions and descriptions of the tetrahedron, ‘hexahedron’ or cube, octahedron, dodecahedron, isocahedron, patonic bodies, rhomboidal dodecahedron, trapezohedron, triacontahedron, hexacontahedron, pentahedron, and artificial series. Under each heading the author discusses the number of faces, interangle measurements between adjacent faces, geometric dissection and included geometric features. Throughout are given as real-world examples from the realm of minerals and their crystallography.

**LASIUS, Georg Sigismund Otto.** (BORN: 1752; DIED: 1833) *German army officier.*

REFERENCES: ADB. • DBA: I 741, 288-290. • Hamberger & Meusel, *Gelehrte Deutschland*, 1796-1834. • Poggendorff: 1, col. 1380. • WBI.

**2905. — German, 1789.**

Beobachtungen über die Harzgebirge, nebst einem Profilrisse, als ein Beytrag zur mineralogischen Naturkunde. Von Georg Sigismund Otto Lasius. Hannover, In der Helwingische Hofbuchhandlung, 1789

8°:  $\pi^8$  \*8 A-Mm<sup>8</sup> Nn<sup>4</sup>; ?? $\ell$ .; [4], x, [12], iv, 559, [2] p.

RARE. These observations on the rich mining area of the Harzgebirge in Germany contain much on the natural history of the region including its mineralogy.

Apparently two issues of this work exist. One that was printed for the subscribers and another (somewhat later?) issues printed for the general book trade.

REFERENCES: BL: [1651/1892.]. • LKG: XIV 174.

LAUNAY

**LATINO COELHO, José Maria.**

**2906. — Portuguese, 1892.**

Compendio De Mineralogia. Morphologia Mineral.  
Lisbon, Academia Real das Sciencias, 1892.

8°: 414 p. RARE.

REFERENCES: NUC.

**LAUNAY, Louis De.** (BORN: Belgium, c1740; DIED: Vienna, Austria, after 1805) *Belgian mineralogist & government finance officer.*

Launay wrote a number of interesting works on local geology and mineralogy. He was elected in 1776 to the Belgian Academy of Sciences.

REFERENCES: BAB: 394, 208-213. • *Nouvelle Biographie Générale* (Hoefer): 13, cols. 429-30. • Poggendorff: 1, col. 540. • WBI.

**2907. — French, 1779.**

Mémoire sur l'origine des fossiles accidentels des Provinces Beligues. Précédé d'un discours sur la Théorie de la Terre. Bruxelles, 1779.

4°: 91 p.

RARE. Paleontology; topographical – Belgium; minerals.

REFERENCES: LKG: XIV 702. • NUC: [no copy listed].

**2908. — French, 1780.**

Traité sur l'Histoire Naturelle et la Minéralogie par M. de Launay ... Londres, 1780.

12°:  $\pi^5$  A-L<sup>12</sup> M<sup>11</sup>; 198 $\ell$ .; [10], 285 p. (last p. blank). "Publiées ... des Mémoires de l'Académie I. & R. de Bruxelles"-Advertisements. Includes index.

VERY RARE. Originally published in *Mémoires de l'Académie Impériale et Royale des Sciences et Belles-Lettres de Bruxelles*, 2, pt. 3.

REFERENCES: BL. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 288. • LKG: VI 78.

**2909. — French, 1803.**

Minéralogie | Des | Ancien's, | Par Louis de Launay. | [rule] | Præterea iter est, non trita auctoribus via, nec qua | peregrinari animus expetat. Plin. L. 1. | [rule] | Tome Premier. [-Second.] | [tapered rule] | A Bruxelles, | Chez Weissenbruch, Imprimeur-Libraire, | Place de l'Égalité, n°. 1805, | Et se trouve | A Paris, chez Garnery, rue de Seine, et | à Strasbourg, chez Treuttel et Wurtz. | [rule] | An XI. (1803).

2 vols. [VOL 1] 8°:  $\pi^8$  a-c<sup>8</sup> d<sup>2</sup> A-2A<sup>8</sup> 2B<sup>6</sup>; 232 $\ell$ .; [16], [i]-lij, [1]-395, [1] p. [VOL 2] 8°:  $\pi^4$  A-S<sup>8</sup>; 142 $\ell$ .; [8], [1]-276 p. large folding table (page 213). PAGE SIZE: 225 x 142 mm. RARE.

CONTENTS: [Vol 1] [2 pgs], Half title page, "Minéralogie | Des | Anciens, | Ou | Exposé Des Substances | Du Règne Minéral | Connues Dans L'Antiquité | Suivi d'un tableau de comparaison de la Miné- | ralogie des Anciens avec celle des Modernes," verso blank.; [2 pgs], Title page, verso "Deux exemplaires de cet ouvrage ..."; [1 pg], Dedication.; [1 pg], Blank.; [3 pgs], "Avis De L'Auteur | Sur Cette Édition."; [4 pgs], "Table | Des titres contenus dans ce | Volume."; [3 pgs], "Table | Des substances du règne minéral, ...";

## MINÉRALOGIE

DES

A N C I E N ' S ,

Par LOUIS DE LAUNAY.

*Præterea iter est, non trita auctoribus via, nec qua  
peregrinari animus expetat. Plin. L. 1.*

TOME PREMIER.

A B R U X E L L E S ,

Chez WEISSENBRUCH, Imprimeur-Libraire,  
place de l'Égalité, n°. 1805,

Et se trouve

A Paris; chez GARNERY, rue de Seine, et  
à Strasbourg, chez TREUTTET et WURTZ

AN XI. (1803).

MINÉRALOGIE DES ANCIEN'S, 1803

[i]-lij, "Introduction."; [1]-390, Text.; [391]-395, "Table Alphabétique."; [1 pg], "Errata."

[Vol 2] [2 pgs], Half title page, [same], verso blank.; [2 pgs], Title page, verso blank.; [2 pgs], "Table | Des titres contenus dans ce | volume."; [2 pgs], "Table | Des substances du Règne Minéral, ..."; [1]-214, Text.; [215]-272, "Notes Explicatives."; [273]-276, "Table Alphabétique."

REFERENCES: LKG: II 19a. • Sinkankas, *Gemology Bibliography*, 1993: no. 3805.

**2910. German transl., 1800-3:** Mineralogie der Alten, | oder | Darstellung | der | Erzeugnisse des Mineralreichs, | wie sie den Alten bekannt waren. | Mit | historischen Untersuchungen über den Gebrauch, der | in jenen Zeiten davon gemacht wurde, und | einer vergleichenden Uebersicht der alten | und neuen Mineralogie. | [tapered rule] | Von | Ludwig von Launay, | k.k. Sekretair und mehrerer gelehrten Gesellschaft | Mitglieder. | [tapered rule] | Erster [-Dritter] Theil. | Aus dem Französischen. | [ornate rule] | Prag, bey Karl Barth, 1800 [-1803].

3 vols. [VOL 1: 1800] 8°:  $\pi^4$  A-T<sup>8</sup> U<sup>4</sup>; 256 $\ell$ .; [8], [1]-304 p.; [VOL 2: 1802] 8°:  $\pi^2$  A-S<sup>8</sup>T<sup>5</sup>; 152 $\ell$ .; [4], [1]-299, [1] p.; [VOL 3: 1803] 8°:  $\pi^2$  A-O<sup>8</sup> P<sup>4</sup>; 118 $\ell$ .; [4], [1]-224, [8] p. PAGE SIZE: 191 x 115 mm.

CONTENTS: [Vol 1] [2 pgs], Title page, verso 2 lines of quotation.; [2 pgs], Dedication to King Albert.; [2 pgs], "Vorbericht | des Uebersetzers."; [2 pgs], "Inhalts | des | ersten Theils."; [1]-304, Text.

[Vol 2] [2 pgs], Title page, verso quotation from Pliny.; [2 pgs], "Inhalt | des | zweyten Theils."; [1]-299, Text.; [1 pg], Blank.

[Vol 3] [2 pgs], Title page, verso blank.; [2 pgs], "Vorbericht."; [1]-224, Text.; [8 pgs], "Register | zur Uebersicht der alten Mineralogie."

VERY SCARCE. Translation by von Ouchy from the original manuscript of *Minéralogie des Anciens* (Paris, 1803). This comprehensive introduction gives a history of the mining practices and mineralogical knowledge of earlier

times. In volume one, the author describes various kinds of precious and semi-precious stones. The second volume is devoted to geological knowledge with a long section on volcanic ejecta. There are also discussions of salts, combustible materials, and various metals including gold, silver, iron and copper. The final volume analysis old and new mineralogies.

REFERENCES: LKG: II 18. • Sinkankas, *Gemology Bibliography*, 1993: no. 3804.

**2911. — German, 1803** [German transl.].

Vergleichende Uebersicht | der alten und der neuen | Mineralogie. | [ornate rule] | Von | Ludwig von Launay, | k.k. Sekretär und mehrerer gelehrten | Gesellschaften Mitglieder. | [ornate rule] | Nec dubitamus, multa esse, quæ et nos præ- | terierint. | Plin. L. I. | [tapered rule] | Aus dem Französischen. | [ornate rule] | Prag, bey Carl Barth, 1803.

8°: VERY SCARCE.

**2912. — French, 1786** [First edition, issue A].

Essai | Sur L'Histoire Naturelle | Des Roches, | Précédé d'un Exposé Systématique | des Terres & des Pierres. | Ouvrage présenté à l'Académie Impériale des Sciences de St. Pétersbourg, | en suite du Programme qu'elle a publié en 1783. | Par | M. de Launay, [...2 lines of titles and memberships...] | [rule] | [...2 lines of quotation, signed Seneca...] | [rule] | À St. Pétersbourg | De l'Imprimerie de l'Académie Impériale des Sciences. | 1786.

4°: A-M<sup>4</sup> N<sup>2</sup> O<sup>1</sup>; 51ℓ.; [1]-101, [1] p. PAGE SIZE: 254 x 194 mm.

CONTENTS: [1]-2], Title page, verso blank.; [3]-4, "Introduction."; 5-101, "Système Abrégé | Des Terres Et Des Pierres."; [1 pg], Blank.

RARE. Also published with Soulavie's *Les Classes Naturelles des Minéraux* (St. Petersburg, 1786) in *Mémoires présentés à l'Académie Impériale des Sciences* (St. Petersburg, 1786) [which see entry under *Mémoires*].

Another issue, 1786: Essai sur l'Histoire Naturelle des Roches, Précédé d'un Exposé Systématique des Terres & des Pierres. ... Bruxelles, 1786. 12°: lxxv, 150, [2] p.

Offprint from the *Mémoires présenté Académie impériale des Sciences de St. Pétersbourg*, pt. 1. (1786). An augmentation of the first edition of 1783.

REFERENCES: LKG: XIII 171a.

**LAUNAY, Louis de.** (BORN: 1860; DIED: 1938) *French mine engineer.*

Launay was a professor of mine engineering at the School of Mines in Paris.

REFERENCES: ABF: I 610, 211-212; II 392, 452-455. • Curinier, *Dictionnaire des Contemporains*, 1889-1906. • Lorenz, *Catalogue Général*, 1869-1945. • WBI.

**2913. — French, 1897.**

Les | Diamants Du Cap | [rule] | Historique.-Organisation Financière Et Commerciale | Géologie.-Mode D'Exploitation Et De Traitement | Comparaison Avec Les Gisements Du Brésil, De L'Inde, De Bornéo | Et D'Australie | Par | L. De Launay | [...2 lines of titles and memberships...]

| [rule] | Paris | Librairie Polytechnique, Baudry Et C. Éditeurs | 15, Rue Des Saints-Pères, 15 | Maison A Liège, 21, Rue De La Régence | [rule] | 1897 | Tous droits réservés.

8°: vii, [1], 239, [1] p., illus. PAGE SIZE: 215 x 150 mm.

CONTENTS: [i-ii], Half title page, verso advertisements.; [iii-iv], Title page, verso blank.; [v]-vii, "Préface."; [1]-224, Text.; [225]-226, Table of contents.; [227]-239, Publisher's list.; [1 pg], Blank.

VERY SCARCE. Treatise describing the history and commercial operations of the South African diamond mines including their geology, speculation on kimberlite pipe formation, methods of recovering the diamonds, security, and general observations about diamond deposits around the world. The author was a mining engineer who worked in the mines and he treats his material in a technical way that he supports with maps, diagrams, tables, and charts.

REFERENCES: NUC. • Sinkankas, *Gemology Bibliography*, 1993: no. 3806. • USGS Library Catalog.

**2914. — French, 1903.**

Les | Richesses Minérales | De | L'Afrique | L'Or, Les Métaux, Le Diamant, | Les Phosphates, Le Sel, | Les Comustibles, Les Sources Thermales, Etc. | [rule] | Algérie Et Tunisie – Égypte – Abyssinie | Soudan – Côte D'Or | Transvaal – Rhodésie – Afrique Centrale | Madagascar, Etc. | Par | L. De Launay | [...2 lines of titles and memberships...] | [ornate rule] | Paris | Librairie Polytechnique Ch. Béranger, Éditeur | Successeur De Baudry Et C<sup>ie</sup> | 15, Rue Des Saints-Pères, 15 | Maison A Liège, 21, Rue De La Régence | [short rule] | 1903 | Tous droits réservés.

8°: [4], [1]-416 p., illus.

CONTENTS: [2 pgs], Half title page, "Les | Richesses Minérales | De | L'Afrique," verso blank.; [2 pgs], Title page, verso blank.; [1]-375, Text.; [376], Blank.; [377]-392, "Index Géographique."; [393]-395, "Table Des Matières."; [396], Blank.; [397]-416, Publisher's list.

RARE. A comprehensive economic mineralogy that treats the whole of the African continent. It gives a general description of the mining regions, and resources for copper, diamonds, phosphates, salts, sulphates, nitrates, borates, petroleum, mineral springs, mercury, antimony, bismuth, etc. One section covers the minerals of Africa, broken down by country. A continuation was published as *La Géologie et les Richesses Minérales de l'Asie* (1911).

REFERENCES: NUC. • Sinkankas, *Gemology Bibliography*, 1993: no. 3807.

**2915. — French, 1911.**

La Géologie et les Richesses Minérales de l'Asie. Historique – Industrie – Production – Avenir – Metal Logenie. Sibérie – Oural – Caucase – Turkestan – Mer Egee – Asie Mineure – Perse – Inde – Insulinde-Indo-Chine – Chine – Japon, ..., par L. de Launay. Paris, C. Beranger, 1911.



## LAURENT

8°: 816 p., maps (part folding, part colored), tables.

RARE. A companion work to the author's *Les Richesses Minérales de L'Afrique* (1903), this work describes the geology and economic minerals of Asia, including information on the mineral discoveries, industries, and production. The lands treated are Siberia, Caucases, Turkestan, Turkey, Persia, India, Indo-China, China, and Japan.

REFERENCES: NUC. • *USGS Library Catalog*.

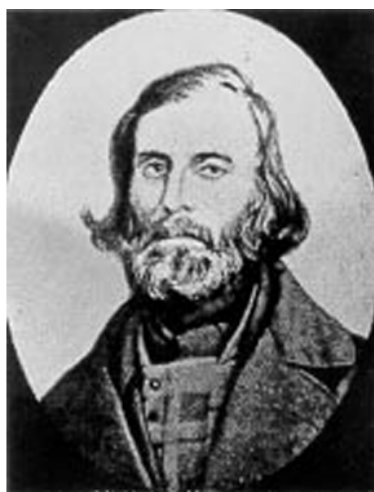
### 2916. — French, 1913.

Traité De Métallogénie | [rule] | Gîtes Minéraux | Et | Métallifères | Gisements, Recherche, | Production Et Commerce Des Minéraux Utiles | Et Minerais, | Description Des Principales Mines | Par | L. De Launay | [...3 lines of titles and memberships...] | [rule] | Tome Première [-Troisième] | [rule] | Paris Et Liège | Librairie Polytechnique Ch.Béranger, Éditeur | Paris, 15, Rue Des Saints-Pères, 15 | Liège, 21, Rue De La Régence, 21 | [rule] | 1913 | Tous droits réservés.

3 vols. [VOL 1] 8°: [2], viii, 858, [2] p., illus 1-129. [VOL 2] 8°: [4], 801, [3] p., illus 130-333. [VOL 3] 8°: [4], 934, [2] p., illus 334-557. PAGE SIZE: 240 x 160 mm.

RARE. An extensive and authoritative work on ore deposits and economic mineralogy. All aspects of the subjects are treated including the principles, theories of formation, deposit types, etc. All minerals of any economic value are described together with information on where and how they are recovered. Oddly, although a very competent work, it never received the credit it should have and was largely ignored in its time and afterward.

REFERENCES: NUC. • Sinkankas, *Gemology Bibliography*, 1993: no. 3808. • *USGS Library Catalog*.



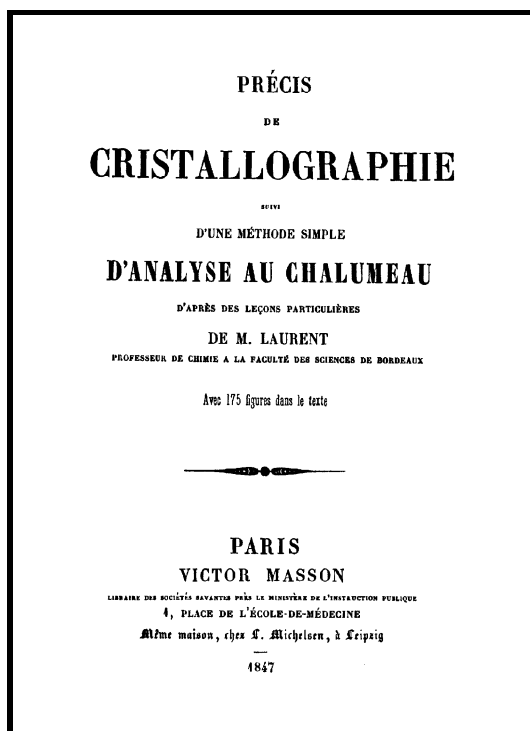
LAURENT

**LAURENT, Auguste.** (BORN: 1807; DIED: 1853) *French chemist & crystallographer.*

French chemist who, as a student of Dumas was given the responsibility of determining the problems with the candles in the French King's 1833 soireé. He braved Berzelius's criticism and demonstrated that hydrogen was being replaced by oppositely charged chlorine atoms, evolving hydrogen chloride gas. This contradicted Berzelius's radical theory, which forbid the replacement of an electronegative element with a more electropositive one, and brought him ridicule from the established chemical community. Laurent used ideas from crystallography to represent organic compounds by three-dimensional structures. However, he believed these structures to be merely symbolic. He collaborated in experiments with Gerhardt, and further developed the type theory proposed by Dumas.

French organic chemist. He devised a systematic nomenclature for organic chemistry. His studies on naphthalene and its chlorination products led him to propose a nucleus theory that foreshadowed modern structural chemistry; he proposed that the structural grouping of atoms within molecules determined how the molecules combined in organic reactions. This theory conflicted with the then current notion that the product of organic reactions depended solely on the electrical charge of the atoms involved. His theory greatly influenced the theory of types proposed by J. B. Dumas and C. F. Gerhardt.

REFERENCES: ABF: I 611, 303-310; II 393, 352-353. • *Nouvelle Biographie Générale* (Hoefer). • Poggendorff: 1, cols. 1386-7. • Schaedler, *Biographisch Handwörterbuch*, 1891: 65. • WBI.



PRÉCIS LE CRISTALLOGRAPHIE, 1847

**2917. — French, 1847.**

Précis | le | Cristallographie | suivi | D'Une  
Méthode Simple | D'Analyse Au Chalumeau  
| D'Après Des Leçons Particulières | De M.  
Laurent | Professeur De Chimie A La Faculté Des  
Sciences De Bordeaux | Avec 175 figures dans le  
texte | [ornate rule] | Paris | Victor Masson |  
Libraire Des Sociétés Savantes Près Le Ministère  
De L'Instruction Publique | 1, Place De L'École-  
De-Médecine | Alème maison, chez C. Michelsen,  
à Leipzig | [rule] | 1847.

8°:  $\pi^2$  1-86 94; 54 $\ell$ .; [4], [1]-104 p., illus. PAGE  
SIZE: 180 x 114 mm.

CONTENTS: [2 pgs], Half title page, "Précis | De |  
Cristallographie," verso "De L'Imprimerie De Crapelet |  
Rue De Vaugirard, 9."; [2 pgs], Title page, verso blank.;  
[1], "Avant-Propos.;" [2], Blank.; [3]-102, Text.; [103]-104,  
"Table Des Matières."

RARE. Laurent, renowned in science history for  
discoveries in organic chemistry, publishes here in his  
first book procedures on the use of crystallography and  
the blow-pipe in mineral analysis.

REFERENCES: BL: [1255.b.14.]. • BL: [1170.c.14.(2.)]. •  
DSB: 8, 54-61. • Partington, *History of Chemistry*, 1961-70:  
4, 376-93 [see page 391]. • Roller & Goodman, *Catalogue*,  
1976: 2, 82.

**LAWRENCE, Thomas.** *English physician & naturalist.*

REFERENCES: BBA: I 671, 121-122. • Munk, W., *The  
roll of the Royal College of Physicians of London*. 2nd edition.  
London, 1878. 3 vols. • Watt, *Bibliotheca Britannica*, 1824.  
• WBI.

**2918. — English, 1664.**

Mercurius centralis; or, a discourse of subterranean  
cockle, muscle, and oyster-shells, found in the  
digging of a well at Sir William Doyle's in Norfolk,  
many foot under ground, and at considerable  
distances from the sea. Sent in a letter to Thomas  
Brown ... by Tho. Lawrence ... London: J. Collins,  
1664.

8°: 5 p.l., 94, one illustration.

VERY SCARCE. Paleontology; geology.

REFERENCES: LKG: XVII 121.

**2919. — English, 1668.**

A Discourse of Subterranean Treasure Occasioned  
by some Late Discoveries thereof in the County  
of Norfolk, and Sent in a letter to Thomas Brown  
M.D. ... London, Printed for J. Collins, 1668.

12°: [10], 94, [4] p., illustrated. "To the reader"  
signed: T.L.

VERY SCARCE. Second edition. Paleontology;  
geology.

REFERENCES: Wing: L-685.

**LAXMANN, Erik.** (BORN: Nyslott, Finland, 24 July  
1737; DIED: Dresvyanskaya, Russia, 16 January 1796)  
*Russian mineralogist & traveler.*

REFERENCES: Poggendorff: 1, col. 1396. • Raskin, N.M  
and I.I. Shafranovskii, *Erik Gustavovich Laxmann Noted  
Traveler and Naturalist of the 18th. Century*. Translated from  
the Russian. Washington, D.C., 1978. [i]-x, [2], [1]-200 p. •  
SBA: Scandinavian Biographical Archive: B-172, 008-020.  
• WBI.

**2920. — German, 1769.**

M. Erich Laxmann's | [...3 lines of titles and  
memberships...] | Sibirische Briefe | [double rule]  
| herausgegeben | von | August Ludwig von  
Schlöder | Rußisch=Kaiserl. Professor der Historie.  
| [vignette] | [rule] | Göttingen und Gotha | verlegt  
Johann Christian Dieterich | 1769.

8°: 104, [4] p.

RARE. Edited by August Ludwig von Schlöder  
[??-??]. In 1769 when Laxmann was traveling in South  
Karelia accumulating information for a book he was  
then writing *Sibirische Nebenstunden*, the *Sibirische  
Briefe* appeared in the bookstalls. It was written by the  
St. Petersburg academician-historian A.L. von Schlöder  
a correspondent of Laxmann's, with the help of J.L.  
Beckmann who was a close friend of Laxmann. The  
book included several of Laxmann's letters from Siberia  
and a letter from Linneaus to him. Laxmann had  
written them to Schlöder to describe his discoveries but  
they were never intended for publication. Although  
the volume received good reviews it caused Laxmann  
to abandon his intended book *Sibirische Nebenstunden*,  
which was never published.

REFERENCES: *Göttingische Anzeigen*: 13 July 1769, p.  
83. • LKG: XIV 748. • Raskin, N.M and I.I. Shafranovskii,  
*Erik Gustavovich Laxmann Noted Traveler and Naturalist  
of the 18th. Century*. Translated from the Russian.  
Washington, D.C., 1978. [i]-x, [2], [1]-200 p: p. 36-8 [title  
page reproduced].

**LE GRANT HERBIER.**

See: Arbolayre (or Grant Herbie).



LEBLANC

## LEDERMÜLLER

**LEBLANC, Nicolas.** (BORN: Issoudun, France, 1742; DIED: St. Denis, France, 10 January 1806) *French chemist.*

French chemist which developed a process preparation of the sodium carbonate which bears its name.

EN 1780, Nicolas Leblanc became surgeon on behalf of the duke of Orleans. It is in 1786, thanks to its work on the crystallization, which it became famous. In 1789, it discovered a method of preparation of the sodium carbonate (soda), and allowed the development of the mineral chemical industry. It opened in 1791, close to Saint-Denis, thanks to the financial support of the duke of Orleans, a factory using this new process. Ruined, it committed suicide in Saint-Denis, in 1806.

Leblanc became interested in the large-scale manufacture of soda because of the offer of a prize. He developed a process for making soda ash (sodium carbonate) from common salt, making possible the large-scale manufacture of glass, soap, paper, and other chemicals. The factory he set up with others was confiscated during the French Revolution, and he later committed suicide.

REFERENCES: DSB: 8, 113-4. • *Encyclopaedia Britannica*, 11th edition. • *ISIS*, 1913-65: 2, 58. • Poggendorff: 1, col. 1397. • Schaedler, *Biographisch Handwörterbuch*, 1891: 67. • *World Who's Who in Science*: 1013.

### 2921. — French, 1802.

De La | Cristallotechnie, | Ou | Essai Sur Les Phénomènes | De La Cristallisation, | Et sur les moyens de conduire cette opération | pour en obtenir des cristaux complets, et | les modifications dont chacune des formes | est susceptible. | Par Nicolas Leblanc, | [...3 lines of titles and memberships...] | [rule] | Les Sciences physiques ont entre elles des | rapports immédiats, et les progrès de | l'une unfluent sur l'avancement des autres. | [rule] | [double rule] | An X — 1802.

8°: [4], x, 11-88 p., 3 plates.

VERY SCARCE. Follows Haiüy's system.

REFERENCES: Leonard's *Taschenbuch*: 2 (1808), 355. • LKG. • NUC: 321, 631 [NL 0181215].

**LECOQ, Henri.** (BORN: 1802; DIED: 1871) *French naturalist.*

REFERENCES: ABF: I 626, 285-293. • *Biographie Universelle*. • *Nouvelle Biographie Générale* (Hoefer). • Poggendorff: 1, col. 1402. • Tardieu, Ambroise. *Dictionnaire des Sciences Naturelles*. (Paris, 1816-1830). Engraved all portraits.. • WBI.

Éléments de Minéralogie Appliquée aux Sciences Chimiques; ouvrage basé sus la Méthode de M. Berzélius, ... par J. Girardin et H. Lecoq, ... (Paris, 1826).

See: Girardin, Jean Pierre Louis.

### 2922. — French, 1830.

Coup d'œil sur la structure géologique et minéralogique du group des Monts Dores, accompagné de la description ... des substances minérales qui le composent. Paris & Clermont-Ferrand, 1830.

8°: 48 p., 5 hand-colored plates.

VERY SCARCE. Co-authored with Jean Baptiste Bouillet [q.v.].

REFERENCES: BL: [1144.d.9.]. • BMC: 3, 1076.

### 2923. — French, 1865.

Les Eaux Minérales du massif central de la France considérées dans leurs rapports avec la Chimie et la Géologie. Paris, 1865.

8°: iv, 256 p. VERY SCARCE.

REFERENCES: BMC: 3, 1076.

### 2924. — French, 1830.

Vues et coupes des principales formations géologiques du département du Puy-de-Dôme accompagnées de la description et des échantillons des roches qui les composent par H. Lecoq et J.-B. Bouillet. Paris, F.G. Levrault, 1830.

8°: 266 p., XXXI leaves of plates.

VERY SCARCE. Subject Geology – France – Puy-de-Dôme. Other author Bouillet, J.-B. (Jean-Baptiste), 1799-1878.

### 2925. — French, 1831.

Itinéraire du Département du Puy-de-Dôme Accompagné d'une Carte Coloriée, Itinéraire, Géologique et Hydro-Graphique par H. Lecoq et J.-B. Bouillet. Paris, Clermont-Ferrand, 1831.

8°: [2], [i]-xvi, [1]-178 p., one folding, hand-colored map.

CONTENTS: [2 pgs], Half title page, verso blank.; [Folding, hand-colored map.]; [i-ii], Title page, verso blank.; [iii]-xiii, "Introduction."; [xiv], Blank.; [xv]-xvi, "Itinéraires."; [1]-117, Text.; [118], Blank.; [119]-152, "Table Explicative."; [153]-178, "Table | Générale Et Alphabétique."

VERY SCARCE. Co-authored with JEAN BAPTISTE BOUILLET.

The book also has a subtitle: *L'indication des principales formations géologiques, du gisement des espèces minérales, des volcans anciens et modernes, et de tous les lieux remarquables, soit par leurs productions naturelles, soit par les anciens monumens que l'on y rencontre, ou par leur aspect pittoresque.*

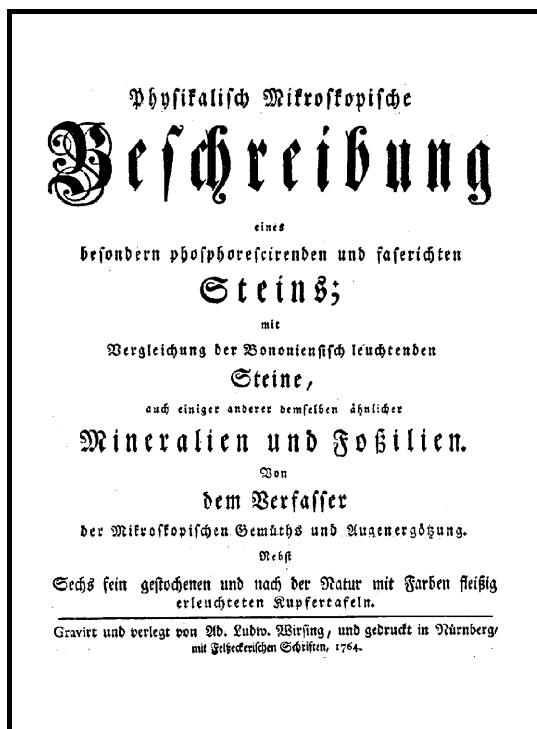
REFERENCES: BL. • BMC. • NUC.

**LEDERMÜLLER, Martin Frobenius.** (BORN: 20 August 1719; DIED: 16 May 1769) *German lawyer.*

REFERENCES: ADB. • DBA: I 748, 93-124; II 795, 180-181. • Hirsch, *Biographisches Lexikon*, 1884-8. • Hirsching, *Historisch-literarisches Handbuch*, 1794-1815. • Jöcher, *Gelehrten-Lexikon, Supplement*. • Meusel, *Verstorbenen Deutschen Schriftsteller*, 1802-16. • NDB. • Poggendorff: 1, col. 1403. • WBI. • Will, *Nürnbergisches Gelehrten-Lexikon*, 1755-1808.

### 2926. — German, 1764.

Physikalisch Mikroskopische | Beschreibung | eines | besondern phosphorescirenden und faserichten | Steins; | mit | Vergleichung der Bononiensisch leuchtenden | Steine, | auch einiger anderer demselben ähnlicher | Mineralien und Fossilien. | Von | dem Verfasser | der Mikroskopischen Gemüths und Augenergötzung. | Nebst | Sechs sein gestochenen und nach der Natur mit Farben fleißig | erleuchteten Kupfertafeln. | [rule] | Gravirt



PHYSIKALISCH MIKROSKOPISCHE, 1764

und verlegt von Ad. Ludw. Wirsing, und gedruckt in Nürnberg, | mit Felbeckerischen Schriften, 1764.

4°:  $\pi^2$  A-C<sup>4</sup>; 14l.; [4], [1]-23, [1] p., 6 hand-colored plates. PAGE SIZE: 252 x 204 mm.

CONTENTS: [2 pgs], Title page, verso blank.; [2 pgs], Dedication to Johann Georg Friederich von Hagen, signed Martin Frobenius Ledermüller.; [1]-23, Text.; [1 pg], "Eingeschlichene Druckfehler."

RARE. This is a beautifully illustrated treatise on a phosphorescent stone found in Bologna, Italy. It fully describes the barite, classifying it and giving a detailed examination under the microscope. The six fine plates are fully described in the text. This is the rarest publication by Ledermüller.

REFERENCES: *Allgemeine Deutsche Bibliothek*: 9, no. 2, 180. • *Berlinische Sammlungen*: 3, 329-30. • *Commentarii Lipsiae*: 14, 437. • *Freilich Sale Catalog*: no. 340. • *Göttingische gelehrte Anzeigen*: 64, p. 1167. • *Hamburg. wöchentl. gelehrte Nach.*: 64, no. 33. • Harvey, *History of Luminescence*, 1957: [not mentioned]. • LKG: XVI 115. • NUC: 322, 505-6 [NL 0193277]. • *Physikalisch-Oekonomische Auszüge*: 7, 512.

#### 2927. — German, 1775.

Martin Frobenius Ledermüllers, | [...3 lines of titles and memberships...] | Physikalisch= mikroskopische | Abhandlung | vom | Asbest, Amiant, | Stein= oder Erdfachs, | und | einiger andern mit demselben verwandter | Fossilien. | Mit VI. illuminirten Kupfertafeln. | [ornate rule] | Nürnberg, | bey Adam Wolfgang Winterschmidt, Kupferstecher, Buchhändler. | [rule] | 1775.

4°: 16 p., 6 hand colored engraved plates.

VERY RARE. Concerns asbestos, and its examination under the microscope.

One of Martin Frobenius Ledermüller's (Nürnberg 1719-1769) rarest works. Towards the middle of the 18th century microscopical observation became very fashionable and Ledermüller's publications enjoyed great popularity. He produced a number of splendid microscopical works, all beautifully illustrated of which 'Mikroskopische Gemüths- und Augenergötzungen' is his best known. They were all published in Nuremberg, the flourishing center of fine natural history iconographies.

REFERENCES: *Freilich Sale Catalog*: no. 341. • LKG: XVI 109. • NUC: 322, 505-6 [NL 0193276].

2928. French transl., 1775: *Traité phisique et microscopique de l'asbeste, l'amiant, le lin de pierre ou de terre, et de quelques autres fossiles qui y ont du rapport. Traduit de l'allemand. De feu monsieur Martin Frobéne Ledermuller ... Avec VI. planches enluminées.* Nuremberg: A.W. Winterschmidt, 1775.

4°: 16 p., 6 colored plates.

VERY RARE. First French edition, translated by Martinus Houttuyn from *Physicalisch-mikroskopische Abhandlung vom Asbest* (1775). Concerns asbestos, and its examination under the microscope.

REFERENCES: NUC: 322, 505-6 [NL 0193280].

**LEGATI, Lorenzo.** (BORN: Cremona, Italy, ; DIED: Bologna, Italy, 1675) *Italian physician & philologist.*

Legati was professor of Greek at the University of Bologna as well as physician-in-ordinary to Prince Gonzaga.

REFERENCES: ABI: I 558, 118-121; II 322, 281. • Frati, *Dizionario Bio-bibliografico Italiani*, 1933. • Jöcher, *Gelehrten-Lexikon*, 1750-51: 2, cols. 2337-8. • Mazzetti, *Repertorio di Tutti i Professori*, 1848. • *Nouvelle Biographie Générale* (Hoefer): 30, cols. 376-7. • WBI.

#### 2929. — Italian, 1677 [Collection catalog].

[In red:] Mvseo Cospiano | [in black:] Annesso A Qvello Del Famoso | [in red:] Vlisse Aldrovandi | [in black:] E donato a sua Partia dall' Illustrissimo Signor | [in red:] Ferdinando Cospi | [in black:] Patrizio Di Bologna E Senatore | Cavaliere Commendatore di S. Stefano, Bali d'Arezzo, e March. di Petriolo, | Fra' Gli Accademici Gelati | Il Fedele, | E Principe Al Presente De' Medesimi. | Descrizione | [in red:] Di Lorenzo Legati Cremonese | [in black:] Dottor Filofoo, Medico, e Pubblico Professore delle Letter e Greche in Bologna, | Accademico Apatista, e Ansioso. | Al Serenissimo | [in red:] Ferdinando III | Principe Di Toscana. | [vignette] | [rule] | In Bologna, per Giacomo Monti. MDCLXXVII. Con licenza de'Superiori.

2°: [22], 532 p., title vignette, one double engraved plate (of the museums' interior), one portrait (of Cospi), small portrait of Ferdinand III of Toscana, numerous woodcuts in text. Title in red and black.

VERY SCARCE. An interesting illustrated description of the natural history objects, antiquities and curiosities in the Cospiano Museum in Bologna.



MVSEO COSPIANO, 1677

This collection was formed by Ferdinando Cospi [see note below], Marches di Petrioli, who was a great collector of natural objects as well as paintings and sculptures. The book documents this with inclusion of the works of Andrea del Sarto, Primaticcio and Michelangelo. The woodcuts represent various kinds of animals, terra cottas, arms, stones, minerals, etc. The large folding plate shows the interior of the museum. Arranged according to the theories of Aldrovandi.

The volume is divided into five books. The first lists human and animal specimens, birds and monsters. The second covers reptiles, fish, corals, shells and fossils, minerals, crustaceans, and plants. The third treats 'exotic' books and manuscripts, mathematical, scientific and nautical instruments, weapons, vases, funerary tablets and games. Book four describes medals and coins, while the last book classifies religious images from localities throughout the known world.

The famous collections of Aldrovandi, as well as his library and manuscripts, were bequeathed to the city of Bologna. A list of these items has been incorporated here with the rest of the Cospi Museum.

**Ferdinando Cospi.** (BORN: Bologna, Italy, 19 January 1606; DIED: Bologna, Italy, 1686) *Italian politician.* Italian senator and purchasing agent in Bologna for the Medici family, Cospi's large and varied collection was given to the senate of Bologna. It was first housed in an annex to Aldrovandi's museum. In 1743, a large portion was moved to the Istituto delle Scienze, which was incorporated into the Museo Civico di Bologna in 1871.

REFERENCES: Balsiger, *Kunst und Wunderkammern*, 1970: 303-9. • BL. • Brunet: 3, 934. • *Cabinets de*

*Curiosités*: no. 97. • Cobres, *Deliciae Cobresianae*, 1782: 1, 100. • Laurencich-Minelli, *Museography in Bologna*, 1985. • Murray, *Museums*, 1904: 1, 89, 216 & 2, 193. • Nissen (ZBI): no. 2421. • NUC: 323, 638 [NL 0211000]. • Olmi, G., "Science-Honor-Metaphor: Italian cabinets of the sixteenth and seventeenth centuries," in: O. Impey and A. Macgregor, eds., *The Origins of Museums*. Oxford, 1985, 12-15. • Schlosser, *Kunst- und Wunderkammern*, 1908: 103-4. • Wilson, *History of Mineral Collecting*, 1994: 40 & 165. • *Wunderkammer to Museum*: no. 25. (Cospi) ABI: I 326, 158. • *Dizionario Biografico Italiani*: 30, 81-2 [by F. Petrucci]. • Jöcher, *Gelehrten-Lexikon, Supplement*. • WBI. • Wilson, *History of Mineral Collecting*, 1994: 40 & 165.

**LEHMANN, Johann Christian von.** *German chemist.*

REFERENCES: DBA: I 749, 195. • Hamberger & Meusel, *Gelehrte Teutschland*, 1796-1834. • Poggendorff: 1, col. 1409. • WBI.

**2930. — German, 1791.**

Grundsätze der Mineralogie. Frankfurt am Main, Varrentrapp und Wenner, 1791.

8°: xxxviii, [1], 569 p. RARE.

REFERENCES: Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 54. • LKG: XII 128. • NUC: 324, 348 [NL 0220583]. • *Selmeci Múemlékkönyvtár Kötetkatalogusa*: no. 430. • Ward & Carozzi, *Geology Emerging*, 1984: no. 1353.



JOHANN GOTTLÖB LEHMANN

**LEHMANN, Johann Gottlob.** (BORN: Johannismühle near Baruth, Germany, 11 May 1719; DIED: Dresden, Germany, 22 January 1767) *German geologist & mineralogist.*

Lehmann made many notable contributions to geology, metallurgy, chemistry, and mineralogy. He is considered the founder of stratigraphy. He also founded the Freiberg Bergakademie which became famous under the directorship of A.G. Werner.

REFERENCES: ADB: 18, 140. • Barr, *Index to Biographical Fragments*, 1973: 152. • DBA: I 749, 259-266; II 797, 31-32. • Drugulin, *Sechstausend Portraits*, 1863: no. 3213. • DSB: 8, 146-8 [by B. von Freyberg]. • *Encyclopaedia Britannica*, 11th edition. • *ISIS*, 1913-65: 2, 63. • Jöcher, *Gelehrten-Lexikon, Supplement*. • Lambrecht & Quenstedt, *Catalogus*, 1938: 256. • NDB: 14, 84 [by W. Kroker]. •

Poggendorff: 1, cols. 1409-10. • Sarjeant, *Geologists*, 1980: 3, 1543-4. • WBI.

**2931. — German, 1750.**

Abhandlung | von | Phosphoris, | deren  
verschiedener Bereitung, Nutzen | und andern  
dabey vorkommenden Anmerkungen | abgefasst  
| von | D. Johann Gottlob Lehmann. | [ornament] |  
[rule] | Dreßden und Leipzig | bey Friedrich Hekel,  
1750.

4°: [1]-36 p.

CONTENTS: [1-2], Title page, verso blank.; [3]-36, Text.

VERY RARE. Lehmann's *Abhandlung von Phosphoris* provides a short account of a broad variety of luminescences. It is one of his earliest publications and professes to give the preparation and uses of phosphors as well as remarks on fire and light and his theory of the origin of the luminescence. Lehmann divides the subject into natural and artificial luminescence, with the latter being prepared either by chemistry or mechanical manipulation, which Lehmann realized was electrical in nature. However, Harvey does not think his treatment was very good.

REFERENCES: BL: [726.e.6.(3.)]. • Harvey, *History of Luminescence*, 1957: pp. 179-80. • NUC: 324, 351 [NL 0220638].

**2932. — German, 1751.**

Kurtze | Einleitung | in einige Theile | der |  
Bergwercks= | Wissenschaft | Anfängern zum  
Besten | abgefasst | von | D. Johann Gottlob  
Lehmann | [rule] | [ornament] | [rule] | Berlin | bey  
Christoph Gottlieb Nicolai. 1751.

8°: [10], 192, [5] p., 2 engraved plates. A short introduction to the science of mining by one of the experts of his age. RARE.

REFERENCES: BL: [972.e.8.].

**2933. — German, 1753.**

Abhandlung | von den | Metall-Müttern | und der  
| Erzeugung der Metalle | aus der | Naturlehre  
und Bergwerckswissenschaft | hergeleitet | und  
mit | Chymischen Versuchen | erwiesen | von |  
D. Johann Gottlob Lehmann. | [ornament] | [ornate  
rule] | Berlin | verlegt Christoph Gottlieb Nicolai.  
1753.

8°: [16], 268, [8] p., engraved title vignette, 2 folding plates.

RARE. An important work on the origin of metals by the famous German geologist. Lehmann recognized that whatever might be the genetic processes which resulted in the appearance of metals and metallic ores, there were certain situations or places which were more favorable to their development than others. These he referred to as the "matrices" of the metals, stating that metals do neither originate in the air, as believed by many of the older writers, nor in animals or plants, but in the earth's crust, in rocks, or in fossiliferous and other

stones.

REFERENCES: Adams, *Origin and Nature of Ore Deposits*, 1934: 291-2. • BL: [953.a.19.]. • Ferguson, *Bibliotheca Chemica*, 1906: 2, 19. • Hoover Collection: no. 519. • LKG: XIII 80. • NUC: 324, 351 [NL 0220636]. • *Selmeci Műemlékkönyvtár Kötetkatalógusa*: no. 432. • Ward & Carozzi, *Geology Emerging*, 1984: no. 1355.

**2934. — German, 1756.**

Versuch | einer Geschichte | von | Flötz=Gebürg-  
en, | betreffend | deren Entstehung, Lage,  
| darinne befindliche | Metallen, Mineralien,  
Fossilien, | grötentheils | aus eignen Wahrnehmungen,  
| chymischen und physikalischen Versuchen,  
| und aus den Grundsätzen der Natur=Lehre |  
hergeleitet, | und mit nöthigen Kupfern versehen,  
| von | D. Johann Gottlob Lehmann, | [...3 lines of  
titles and memberships...] | [rule] | Mit Königl. Pohl.  
Churf. Sächs. allergn. Privilegio. | [rule] | Berlin, |  
zu finden in der Kütterschen Buchhandlung. | 1756.

8°: [80], 240, [8] p., 9 plates.

VERY SCARCE. This good little work, whose forward contains a useful examination of the mineral wealth of the royal prussian provinces titled: *Geographiæ subterraneæ*, can benefit beginners as well as experienced amateurs of nature and mining. The author does not bury the reader in the prevailing theories, rather he stresses physical examination and practical experience as the best method to obtain knowledge.

REFERENCES: Adams, *Birth and Development*, 1938: 374-8. • *Berlinische Sammlungen*: 3, 630-1. • BL: [990.c.15.]. • Cobres, *Deliciæ Cobresianæ*, 1782: 2, 698. • DSB: 8, 147 [by B. von Freyberg]. • Geikie, *Founders of Geology*, 1905: p. 195-7. • *Göttingische gelehrte Anzeigen*: 57, 25. • *Kartheusers vermischte Schriften*: pt. 4, 305-11. • LKG: XIII 81a. • NUC: 324, 351 [NL 0220655 & 0220656]. • *Selmeci Műemlékkönyvtár Kötetkatalógusa*: no. 430. • *Vogels Medical Bibliographie*: 3, 504-10 [Includes excerpts from the book]. • Ward & Carozzi, *Geology Emerging*, 1984: no. 1356 [reproduces the title page]. • Zittel, *History of Geology*, 1901: pp. 35-6.

**Kurzer Entwurf einer Mineralogie**

**2935. — German, 1758 [First edition].**

Johann Gottlob Lehmann's ... Kurzer Entwurf einer Mineralogie zum Gebrauche für Vorlesungen. Berlin, 1758.

8°: 152 p.

EXTREMELY RARE. No copy has been traced. Although the author directed this work to the use of the beginner, it includes many noteworthy ideas, which are the author's opinions rather than a reflexion of the state of mineralogical science. The divisions of the minerals are arranged not according to specific chemical tests, but rather after general principals reported elsewhere on the behavior of the various bodies in fire, water, etc.

REFERENCES: Beekman, *Systematische Mineralogie*, 1906: 87. • *Berlinische Sammlungen*: 3, 631-2. • BL: [no copy listed]. • *Commentarii Lipsiæ*: 10, 337. • Fischer, *Mineralogie in Sachsen*, 1939: 237. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 51. • *Kartheusers vermischte Schriften*: pt. 4, 460-4. • LKG: XII 54. • *Physikalisch-Oekonomische Auszüge*: 2, 266. • Wallerius, *Brevis Introductio*, 1779: 97.



**2936. 2nd edition, 1760:** D. Johann Gottlob Lehmann's [...] Entwurf einer Mineralogie zum Dienst derer allhier in Berlin Studierenden. [...] Zweyte und vermehrte Auflage. [...] Berlin, 1760. [...] bey Gottlieb August Lange.

8°: \*4 A-I<sup>8</sup> K<sup>3</sup>; 79ℓ.; [8], [1]-150 p.

CONTENTS: [2 pgs], Title page, verso blank.; [2 pgs], "Vorrede zur ersten Auflage."—dated 24 May 1758.; [2 pgs], "Vorrede zur zweyten Auflage."—24 December 1759.; [2 pgs], "Verzeichniß derer Abschnitte."; [1]-144, Text.; [145]-150, "Register."

VERY RARE. Whatever in the first edition was not certain, incorrect or misorganized has in this second edition been revised and corrected.

REFERENCES: *Berlinische Sammlungen*: 3, 631. • BL: [972.h.23.(1.)]. • Cobres, *Deliciae Cobresianae*, 1782: 2, 698. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 51. • LKG: XII 55.

**2937. 3rd edition, 1769:** D. Joh. Gottlob Lehmanns, [...] Entwurf einer Mineralogie zum Dienst der Studierenden. [...] Dritte Auflage. [...] Frankfurt und Leipzig, In Verlag der Carl Fel Beckerischen Buchhandlung, 1769.

8°: \*4 A-I<sup>8</sup> K<sup>3</sup>; 79ℓ.; [8], [1]-150 p. PAGE SIZE: 174 x 98 mm. VERY SCARCE. Reprint of the 1760 text with a new title page.

CONTENTS: [2 pgs], Title page, verso blank.; [2 pgs], "Vorrede zur ersten Auflage."—dated 24 May 1758.; [2 pgs], "Vorrede zur zweyten Auflage."; [2 pgs], "Verzeichniß derer Abschnitte."; [1]-144, Text.; [145]-150, "Register."

REFERENCES: BL: [no copy listed]. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 51. • NUC: 324, 351 [NL 0220645]. • *Selmeci Műemlékkönyvtár Kötetkatalogusa*: no. 434.

ЮГАННА ГОТЛОБА ЛЕМАНА,  
Королевскаго Прусскаго  
ГОРНАГО СОВѢТНИКА,  
ИМПЕРАТОРСКОЙ АКАДЕМІИ НАУКЪ  
ХИМІИ ПРОФЕССОРА  
и  
ЧЛЕНА,

МИНЕРАЛОГІЯ.

Переведена  
АНДРЕЕМЪ НАРТОВЫМЪ,

Статскимъ Сочѣтникомъ, членомъ Бергъ кол-  
легіи Монетнаго департамента, вольнаго Эко-  
номическаго общества, и Лейпцигскаго ученаго  
собранія свободныхъ наукъ.



Въ Санктпетербургѣ.  
1772 года.

MINERALOGIA, 1772

**2938. Russian transl., 1772:** Юганна Готлоба Лемана, [...] Королевскаго Прусскаго Горнаго Совѣтника, [...] Императорской Академіи Наукъ Химіи Профес-  
сора и члена; Минералогія. Переведена Ан-  
дреемъ Нартовымъ, Спашскимъ Сочѣтникомъ,  
членомъ Бергъ кол-легіи Монетнаго депарша-  
менма, вольнаго Эко-номическаго общесства, и  
Лейпцигскаго ученаго собранія свободныхъ наукъ.  
[...] Бъ Санкпмемербургѣ. [...] 1772 года.

[TRANSLITERATED TITLE:]

Ioganna Gotloba Lemana, [...] Korolevskago Prusskago  
Gornago Sovetnika, [...] Imperatorskoï Akademii Nauk  
Kkhimii Professora i chlena; Mineralogiia.  
Perevedena Andreem Nartovym, Sshashskim  
So'eshnikom, chlenom Berg kol-legii Moneshnago depar-  
shamenma, vol'nago Èko-nomicheskago obshchesshva, i  
Leiptsigskago uchenago sobraniia svobodnykh nauk.  
[...] B Sankpemerburge. [...] 1772 goda.

8°: [8], 141, [1] p.

VERY RARE. Translation of Lehmann's *Entwurf einer Mineralogie* (3rd ed., Frankfurt, 1769).

REFERENCES: BL: [no copy listed]. • Sopikov, *Essay in Russian Bibliography*, 1904-8: no. 6223. • *Svodnyi Katalog Russkoï Knigi*: no. 3585.

**2939. — French, 1759** [French transl.].

L'Art Des Mines Ou Introductoin Aux  
Connoissances Nécessaires Pour L'Exploitation  
des Mines Métalliques. Avec In Traité  
des Exhalaisons Minérales ou Mouffettes, &  
plusieurs Mémoires sur différens sujets d'Histoire  
Naturelle. Avec figures. Par M. Jean-Gotlob  
Lehmann, [...] Ouvrages traduits de l'Allemand. Tome Premier.  
[...] A Paris, Chez Jean-Thomas  
Hérissant, rue S. Jacques, à S. Paul & à S. Hilaire.  
[...] M. DCC. LIX. Avec Approbation  
& Privilège du Roi.

[TITLE PAGE OF VOLUME 2 READS:]

Traité De La Formation Des Metaux, Et De  
Leurs Matrices ou Minieres: Ouvrage fondé sur  
les principes de la Physique & de la Minéralogie,  
& confirmé par des Expériences Chymiques.  
Par M. Jean-Gotlob Lehmann, [...] Traduit de l'Allemand. Tome  
Second. [...] A Paris, Chez Jean-Thomas  
Hérissant, rue S. Jacques, à S. Paul & à S. Hilaire.  
[...] M. DCC. LIX. Avec Approbation  
& Privilège du Roi.

[TITLE OF VOLUME 3 READS:]

Essai D'Une Histoire Naturelle De Couches  
De La Terre, Dans lequel on traite de leur  
formation, de leur situation, des minéraux, des  
métaux & des fossiles qu'elles contiennent:  
Avec des Considérations Physiques sur les  
causes des Tremblemens de Terre & de leur  
propagation. Par M. Jean-Gotlob Lehmann,  
[...] Ouvrages  
traduits de l'Allemand, & augmentés de Notes

du Traducteur. | Ornés de Figures. | Tome Troisième. | [ornament] | A Paris, | Chez Jean-Thomas Hérisant, rue S. | Jacques, à S. Paul & à S. Hilaire. | [double rule] | M. DCC. LIX. | Avec Approbation & Privilège du Roi.

3 vols. [VOL 1] 12°:  $\pi^2$  a<sup>8</sup> A-R<sup>12</sup> S<sup>6</sup>; 220ℓ.; [4], [i]-xvi, [1]-419, [1] p., frontispiece, 4 plates, one table (p. 172). [VOL 2] 12°: a<sup>7</sup> A-Q<sup>12</sup> R<sup>10</sup>; 210ℓ.; [iii]-xvi, [1]-402, [2] p. [VOL 3] 12°: a<sup>12</sup> b<sup>2</sup> A-V<sup>12</sup> X<sup>11</sup>; 265ℓ.; [i]-xxvii, [1], [1]-498, [4] p., 6 plates (some folding).

CONTENTS: [Vol 1] [2 pgs], Half title page, "Traité | De Physique, | D'Histoire Naturelle, De Mineralogie | Et De | Métallurgie. | [double rule] | Tome Premier.," verso blank.; [Frontispiece, "Coupe d'une Mine," signed Patte Drexel.]; [2 pgs], Title page, verso blank.; [i]-xi, "Préface | Du Traducteur.," xii-xv, "Table | Des Chapitres.," xvi, "Fautes A Corriger.," [1]-226, Text.; [227], Sectional title page, "Traité | Des Mouffettes, | Ou | Des Exhalations | pernicieuses qui se font sentir | dans les souterrains des | Mines; | Traduit du Latin de Zachaire | Theobald, & enrichi de | remarques par M. Lehmann.," [228], Blank.; [229]-230, Text of Traité des Mouffettes.; 301, Sectional title page, "Extraits | De Quelques | Memoires | Sur différens sujets d'Histoire | Naturelle." [listing 7 titles]; [302], Blank.; [303], "Avertissement.," [304], Blank.; 305-404, Text.; [405]-419, "Table | Des Matieres.," [1 pg], Blank.

[Vol 2] [iii-iv], Half title page, "Traité | De Physique, | D'Histoire Naturelle, De Mineralogie | Et De | Métallurgie. | [double rule] | Tome Second.," verso blank.; [v-vi], Title page, verso blank.; vii-xiii, "Préface | De L'Auteur."—dated 5 Août 1752.; xiv-xv, "Avis | Du Traducteur.," xvi, "Table | Des Sections.," [1]-388, Text.; 389-402, "Table | Des Matieres.," [1 pg], "Fautes A Corriger.," [1 pg], Blank.

[i-ii], Half title page, "Traité | De Physique, | D'Histoire Naturelle, De Mineralogie | Et De | Métallurgie. | [double rule] | Tome Troisième," verso blank.; [iii-iv], Title page, verso blank.; v-xxiv, "Préface | Du Traducteur.," xxv-xxvii, "Table | Des Sections.," [1 pg], Blank.; [1]-483, Text.; 484-498, "Table | Des Matieres.," [4 pgs], "Approbation" and "Privilège Du Roi."

RARE. Translated by P.H.T. baron d'Holbach from a number of Lehmann's published works. Each volume has a half-title *Traité de Physique, d'Histoire Naturelle, De Mineralogie et de Métallurgie* that accurately describes the variety of contents of this work. Volume one begins by describing mines, mountains and rivers in general. This is followed by a discussion of mineralogy (pp. 35-226) with emphasis on economic metals. A treatise on "mouffettes" and on the formation of mines follows. This is followed by translations of seven treatises on natural history that speculate on the interior structure of the earth, volcanoes, mineral waters, natural history around Halberstadt, types of marbles, and copper minerals. Volume two provides information on the formation of metals, on mines and their construction, while volume three is orientated on geology, with discussions of the earth in general, and Lehmann's commentary on the theories of Woodward, Whiston, Burnet, Moro, etc., on mountains, and the relationship of metals and minerals to the mountains, and the causes of earthquakes.

Contents: 1. L'Art des Mines ou Introduction aux connoissances nécessaires pour l'exploitation des Mines

Metalliques. 2. Traité de la Formation des Metaux, et de leurs matrices ou Minieres. 3. Essai d'une Histoire Naturelle de Couches de la Terre.

REFERENCES: BL: [990.c.16-18.]. • LKG: XII 56 & 57. • NUC: 324, 351 [NL 0220654]. • Ward & Carozzi, *Geology Emerging*, 1984: no. 1357.

## 2940. — German, 1760.

Kurtze Untersuchung | derer sogenannten | Versteinerten Kornähren und Stangengraupen | von Frankenburg in Hessen | in einem | Sendschreiben | an | Herrn Andreas Siegmund | Marggrafen | [...3 lines of titles and memberships...] | als | Derselbe zum Director der physicalischen Klasse bey der erstern | besagter Akademien | den 18ten des Herbstmonaths 1760. erwehlet worden, | mitgetheilet | von | D. Johann Gottlob Lehmann, | [...3 lines of titles and memberships...] | [rule] | Berlin, gedruckt bey Johann Gottfried Michaelis.

4°.

RARE. Also contained in Lehmann's collected writings on chemistry.

REFERENCES: *Berlinische Sammlungen*: 3, 632. • BL: [B.368.(8.)]. • *Erlanger gelehrte Beyträge*: 1761, 551. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 109. • LKG: XVII 164 & XVII 165.

## 2941. — German, 1761-6.

Cadmilogia, | oder | Geschichte | des | Farben=Kobolds | nach seinen | Nahmen, Arten, Lagerstätten, | darbey brechenden Metallen, Mineralien, Erzten und | Steinen, wie auch dessen Verhältniß nach der Prober=Kunst, | dessen Gebrauch und andern dabey vorfallenden Umständen; | Nebst Beschreibung derer darzu gehörigen Oefen, | Maschinen und Arbeiten, | theils aus andern Schriften, | grötentheils aber aus eigener Erfahrung und sorgfältig | angestellten Versuchen und Wahrnehmungen | zusammen getragen | und mit den nöthigen Kupfern erläutert, | von | D. Johann Gottlob Lehmann, [...4 lines of titles and memberships...] | [rule] | Erster Theil. | [rule] | Königsberg, verlegt seel. Gebh. Ludwig Woltersdorfs Wittwe. 1761.

2 parts. [Part 1: 1761] 4°: \*4 (a)-(b)<sup>4</sup> A-M<sup>4</sup> N<sup>2</sup> O<sup>2</sup> ) (2; 66ℓ.; [24], [1]-100, [8] p., 9 folding plates. [Part 2: 1766] 4°: [4], 115, [1] p. PAGE SIZE: 200 x 178 mm.

CONTENTS: [Part 1] [2 pgs], Title page, verso blank.; [6 pgs], Dedication signed Johann Gottlob Lehmann, 4 August 1760.; [16 pgs], "Vorrede.," [1 pg], Sectional title page, "Erster Theil | der | Cadmilogia, | welcher | die Etymologie, Geschichte, Arten, Lagerstätten und | den mechanischen Gebrauch | des Kobolds | in sich enthält.," [2], Blank.; [3]-100, Text.; [4 pgs], "Register | derer vornehmsten Sachen.," [4 pgs], "Erklärung | derer Kupfer=Tafeln."

[Part 2] Not seen.

VERY SCARCE. The second part was published by J.H. Hartungs. Lehmann's *Cadmilogia* dealt specifically with cobalt ores, treating their occurrence,



mineralogy, and chemistry, and the technology necessary to their mining and commercial use. Several of the plates illustrate furnaces and machinery.

REFERENCES: *Allgemeine Deutsche Bibliothek*: 7, stuck 1, 299. • *Berlinische Sammlungen*: 3, 628-9. • BL: [457.b.8.]. • Cobres, *Deliciae Cobresianae*, 1782: 2, 726. • *Commentarii Lipsiae*: 9, 639. • *Erlanger gelehrte Beyträge*: 1766, 403. • Gatterer, *Mineralogischen Literatur*, 1798-9: 2, 233-4. • *Gaz. Litt. de l'Eur.*: March 1767, 178. • *Göttingische gelehrte Anzeigen*: 63, 498-500. • *Greifsw. n. krit. Nachr.*: 1766, 261. • Hoover Collection: no. 520. • *Leipziger gelehrte Zeitung*: 1762, 675. • LKG: XVI 322. • NUC: 324, 351 [NL 0220640]. • *Selmeci Műemlékkönyvtár Kötetkatalógusa*: no. 433.

**2942. Russian transl., 1778:** Кобальтословие или Описание краснаго кобальта по збанию, породам и месторождениям онаго и по добываемым при оном металлам, ископаемым, рыдам и камням, также и о содержании онаго по опытному искусству, о употреблении его и о других случающихся при том обстоятельствах, с приобщением хужных для объяснения тавлиц. Сочинено доктором Иоганном Готловом Леманом, прусским королевским горных дел советником, Королевской Прусской и Курмейнпской академий наук и Аглинского собрания, трудящегося о успехе художеств, мануфактур и торговли, членом. Переведено с немецкаго языка обер бергмейстером Иваном Хемнитцером. Разматрибано учрежденным при Горном училище совранием. Ч. 1-2. Санктпетербург, печ. при оном же Училище, 1778.

[TRANSLITERATED TITLE:]

Kobal'toslovie ili Opisanie krasn' nago kobal'ta po zbaniiu, porodam i mestorozhdeniiam onago i po dobyvaemym pri onom metallam, iskopaemym, rydam i kamniyam, takzhe i o soderzhanii onago po opytному искусству, o upotreblenii ego i o drugikh sluchaiushchikhsia pri tom obstoiatel'stvakh, s priobshcheniem khuzhnykh dlia ob'iasneniia tavlits. Sochineno doktorom Iogannom Gotlovom Lemanom, prusskim korolevskim gornyx del sovetnikom, Korolevskoi Prusskoi i Kurmeinskoii akademii nauk i Aglinskago sobraniia, trudiashchagosa o uspekhe khudozhestv, manufaktur i trgovli, chlenom. Perevedeno s nemetskago iazyka ober bergmeiasterom Ivanom Kkhemitserom. Razmatribano uchrezhdennym pri Gornom uchilishche sovraniiem. Ch. 1-2. Sanktpeterburg, pech. pri onom zhe Uchilishche, 1778.

2 parts. [Part 1] 8°: [37], 200 p., 9 plates (tables?); [Part 2] 8°: [4], 234 p.

RARE.

REFERENCES: BL: [no copy listed]. • Sopikov, *Essay in Russian Bibliography*, 1904-8: no. 5274. • *Svodnyi Katalog Russkoï Knigi*: no. 3584.

#### 2943. — Latin, 1762.

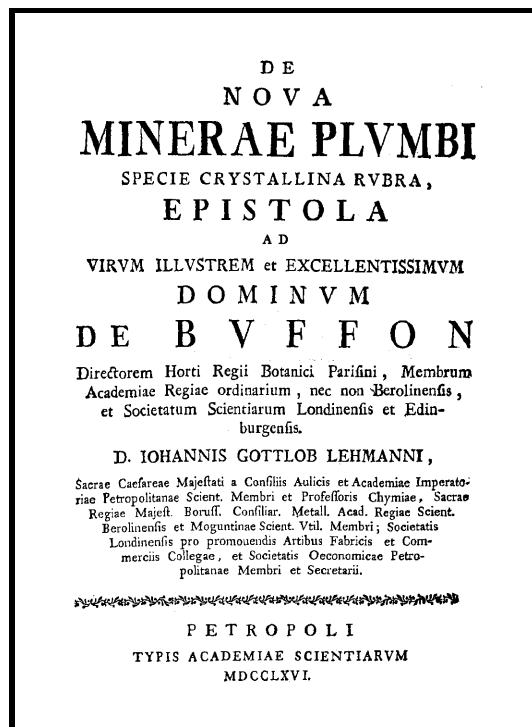
Specimen | Orographiae | Generalis | Tractvs Montivm Primarios | Globvm Nostrvm Terraqvem | Pervagantes | Sistens, | Occasione | Diei Festi | Coronationis | Catharinae II. | Imperatricis Avgvstissimae | Omnivm Rvssiarvm | In Solemni Academiae Conventv | D. XXIII. Sept. MDC-CLXII. | praeletrum | a | D. Iohanne Gottlob Lehmanno | [...5 lines of titles and memberships...] | [ornate rule] | Petropoli | Typis Academiae Scientiarum Imperialis Petropolitanae.

4°: π<sup>1</sup> A-C<sup>4</sup> D<sup>5</sup>; 18ℓ.; [2], [1]-34 p. VERY RARE.

CONTENTS: [2 pgs], Title page, verso blank.; [1]-34, Text.

REFERENCES: BL: [8560.e.15.(1.)]. • Filov & Kopanov,

*Svodnyi Katalog Knigna*, 1984-6: 2, 138, no. 1697. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 55. • *Göttingische gelehrte Anzeigen*: 1763, 69. • LKG: XIII 82b. • NUC: 324, 351 [NL 0220652].



DE NOVA MINERÆ PLVMBI, 1766

#### 2944. — Latin, 1766.

De | Nova | Mineræ Plvmbi | Specie Crystallina Rvba, | Epistola | Ad | Virum Illvstrem Et Excellentissimvm | Dominvm | de Bvffon | [...4 lines of titles and memberships...] | D. Iohannis Gottlob Lehmanni, | [...7 lines of titles and memberships...] | [ornate rule] | Petropoli | Typis Academiae Scientiarvm | MDCCLXVI.

4°: )(4 ):():2; 6ℓ.; [1]-12 p.

CONTENTS: [1-2], Title page, verso blank.; [3]-12, Text.

VERY RARE. A letter from Lehmann to Buffon that describes a new mineral found in Siberia. This mineral now known as crocoite had its first description in this letter. This letter was translated into French and published in: Balthazar Georges Sage's *Examen chymique de différentes substances minérales* (Paris, 1769).

Translations: Gatterer (2, 202-3) lists several translations into German.

REFERENCES: *Berlinische Sammlungen*: 3, 632-3. • BL: [B.354.(7.)]. • Filov & Kopanov, *Svodnyi Katalog Knigna*, 1984-6: 2, 138, no. 1696. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 287. • LKG: XI 3 & XVI 173. • NUC: 324, 351 [NL 0220644].

**LEHMANN, Otto.** (BORN: Constance, Baden, Germany, 13 January 1855; DIED: Karlsruhe, Germany, 17 June 1922) *German crystallographer & physicist.*

After studying at Strasbourg, Lehmann was successively professor of physics at the Technical High Schools of Aachen (1883), Dresden (1888) and Karlsruhe (1889). Early on, he devised a heating microscope so that polymorphic modifications of crystalline substances could be observed at different temperatures. Liquid crystals of cholesteryl benzoate were discovered by F. Reinitzer in 1888, and having a close relationship to his own work, Lehman did much to develop the new subject, on which he wrote many papers and books.

REFERENCES: DBA: II G 8, 48-50; 797, 193-208. • DSB: 8, 148-9 [by J.G. Burke]. • Freund & Berg, *Geschichte der Mikroskopie*, 1966: 3, 261-71, portrait [by K.L. Weiner]. • Knoll, P.M., *Otto Lehmann, Erforscher der flüssigen Kristalle: Eine Biographie mit Briefen*. Ettlingen, P.M. Knoll, 1988. 59 p. • *Mineralogical Magazine*: 20 (1924), no. 107, 263-4 [by L.J. Spencer]. • *Physikalische Zeitschrift*: 24 (1923), 289-91. • *Poggendorff*: 3, 792, 4, 859-60, 5, 724-6. • *Sarjeant, Geologists*, 1980: 3, 1544. • WBI. • *World Who's Who in Science*: 1019. • *Zeitschrift für technische Physik*: 4 (1923), 1.

#### 2945. — German, 1904.

Flüssige Kristalle | Sowie | Plastizität Von Kristallen Im Allgemeinen, | Molekulare Umlagerungen Und | Aggregatzustandsänderungen | Von | Dr. O. Lehmann | Professor Der Physik An Der Technischen Hochschule In Karlsruhe | Mit 483 Figuren Im Text | Und 39 Tafeln In Lichtdruck | Leipzig | Verlag Von Wilhelm Engelmann | 1904.

4°: 264 p., 39 plates, 483 text illus.

RARE. Lehmann, the great German physicist, was the discoverer of liquid crystals, a subject to which the present work is an early contribution.

**Related work, 1905:** "Die Gleichgewichtsform fester und flüssiger Kristalle." 7pp in: *Annalen der Physik*, 4th series, vol. 17, no. 4, pp. 728-734. 8°. Other contributors to this volume include A. Winkelmann, John Koch, W. Matthies, G. Melander, R. Fuersteabau, and others.

REFERENCES: BL: [no copy listed]. • Dana's 7th (Bibliography): 76. • DSB: 8, 148-9. • Kelker, H., "Flüssige Kristalle und die Theorien des Lebens," *Naturwissenschaftliche Rundschau*, 39 (1986), no. 6, p. 239. • *Poggendorff*: 3, 792, 4, 859-60 & 5, ??? . • *Sarjeant, Geologists*, 1980: 3, 1544. • *World Who's Who in Science*: 1019.

#### 2946. — German, 1907.

Die | scheinbar lebenden | Kristalle | Anleitung zur Demonstration ihrer Eigenschaften | sowie ihrer Verzeichnung zu anderen flüssigen und zu | den festen Kristallen in Form eines Dreigesprächs | von | Dr. O. Lehmann | [...2 lines of titles and memberships...] | [vignette] | Verlag von J.F. Schreiber in Eßlingen und München.

4°: VERY SCARCE.

#### 2947. — German, 1910.

Das Kristallisationsmikroskop und die damit gemachten Entdeckungen insbesondere die der flüssigen Kristalle. ( Festschrift zur Feier des dreihundertfünfzigsten Geburtstages Sr. Königlichen

Hoheit des Großherzogs Friedrich II. von Baden. Hg. Großherzogliche Technische Hochschule Friedrichiana. ) Braunschweig. Friedrich Vieweg und Sohn., 1910.

8°: iv, [2], 112 p., 48 text illus. PAGE SIZE: 230 x 150 mm.

SCARCE. Otto Lehmann (1855-1922, 1888 Professur electro-technology at the polytechnic institute Dresden, 1889 successors by Heinrich cycles per second to the TH Karlsruhe, nominated several times for the Nobel prize) investigated the "liquid" crystals, a term, which it coined/shaped. He is one of the prefathers of the LCD technology.

#### 2948. — German, 1911.

Die Neue Welt | der | flüssigen Kristalle | und deren Bedeutung | für Physik, Chemie, Technik und Biologie | Von | Dr. O. Lehmann | [...2 lines of titles and memberships...] | Mit 246 Abbildungen im Text | [ornament] | Leipzig | Akademische Verlagsgesellschaft m.b.H. | 1911.

8°: 388 p., 246 figs.

VERY SCARCE. Description of fluid crystals.

REFERENCES: BL: [07106.ee.9.].

#### 2949. — German, 1918.

Die | Lehre | von den | flüssigen Krystallen | und ihre Beziehung zu den Problemen der Biologie. | Von O. Lehmann. | Prof. der Physik an der Technischen Hochschule Karlsruhe. | Wiesbaden | Verlag von Wilhelm Bergmann | 1918.

8°: [2], 255, [1] p., 572 illus.

VERY SCARCE. A special offprint from "Ergebnisse der Physiologie von Asher und Spiro, XVI."

REFERENCES: NUC.

#### 2950. — German, 1910.

Flüssige Kristalle, Myelinformen und Muskelkraft. München, Isaria-Verlag, 1910.

43 p., illus. VERY SCARCE.

**LEIBNITZ, Gottfried Wilhelm.** (BORN: Leipzig, Germany, 21 June 1646; DIED: Hannover, Germany, 14 November 1716) *German philosopher, mathematician, historian & jurist.*

German philosopher, mathematician, historian and jurist, contemporary of Newton (1642-1727), who left behind no philosophical magnum opus, but who is still considered to be among the giant thinkers of the 17th-century. Leibniz believed in "pre-established harmony" between matter and mind, and developed a philosophy of Rationalism by which he attempted to reconcile the existence of matter with the existence of God. Bertrand Russel wrote that Leibniz's intellect "was highly abstract and logical; his greatest claim to fame is as an inventor of the infinitesimal calculus."

Gottfried Wilhelm Leibniz was born in Leipzig as the son of a professor of moral philosophy. He received his masters degree from the University of Leipzig at the age of 18 and his doctorate in law at Altdorf in 1667. Leibniz preferred a courtly to and academich career and in 1669 he entered into the service of the elector of Mainz. Some years later he traveled to Paris to try to persuade Louis

## LEIBNITZ



LEIBNITZ

XIV to expel the Turks from Egypt in order to distract his attention from marching on Holland. The ploy did not work.

In 1675 Leibniz made his most important scientific discovery, the differential and integral calculus which became the basis for modern mathematic. The discovery resulted in a controversy with Isaac Newton over whether he or Newton was the inventor. Nowadays it is generally agreed that they both discovered the basic foundations the calculus independently, Newton first but Leibniz's publication predated that of Newton. Leibniz's system of notation is superior to that of Newton, and is still in use today. Newton's absolute space also was something Leibniz could not accept: "I hold space to be something merely relative, as time is; . . . For space denotes, in terms of possibility, an order to things which exist at the same time, considered as existing together."

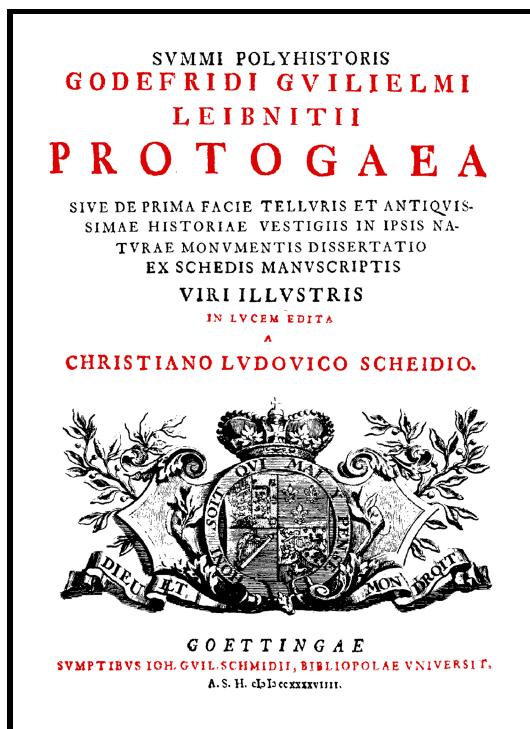
REFERENCES: DBA: I 360,11; 750,332-404; II 798, 336-461; 799, 1-69. • DSB: 8, ?? . • *Encyclopaedia Britannica*, 11th edition: 16, 385-90. • Gerber, *Historisch-biographisches Lexikon*, 1812-4. • Hirsch, *Biographisches Lexikon*, 1884-8. • Hirsching, *Historisch-literarisches Handbuch*, 1794-1815. • Jöcher, *Gelehrten-Lexikon*, 1750-51. • NDB. • Poggendorff: 1, cols. 1413-5. • Schaedler, *Biographisch Handwörterbuch*, 1891: 68. • WBI. • Zischka, *Allgemeines Gelehrten-Lexikon*, 1961: 376-7.

### 2951. — Latin, 1749 [First edition].

[In black:] Svmmi Polyhistoris | [in red:] Godefridi Gvilielmi | Leibnitii | Protogaea | [in black:] Sive De Prima Facie Tellvris Et Antiqvis- | simae Historiae Vestigiis In Ipsi- | tvrae Monvmentis Dissertatio | Ex Schedis Manvs- | scriptis | Viri Illvstris | [in red:] In Lvcem Edita | A | Christiano Lv- | dovico Scheidio. | [in black, ornament] | Goettingae | [in red:] Svmp- | tibvs Ioh. Vil. Schmidii Bibliopolae Vni- | versit | [in black:] A.S.H. c10 DCCCXXXVIII.

4<sup>o</sup>:  $\pi^2$  a-c<sup>4</sup> d<sup>2</sup> A-L<sup>4</sup> (L<sup>4</sup> blank); 58 $\ell$ .; [2], XXVI, [2], 86, [2] p., 12 large engraved plates, one engraved title vignette (Brunswick-Luneburg arms) and one engraved textvignette. Title page printed in red and black. PAGE SIZE: 256 x 184 mm.

CONTENTS: [2 pgs], Title page, verso blank.; [2 pgs],



PROTOGAEA, 1749

Dedication, signed Christ. Lv- | dov. Scheidvs.; [i]-xxvi, "Q.D.B.V. | Lectori Honoratissimo | S.P.D. | Christ. Lvd. Scheidivs."; [2 pgs], "Conspectvs Totivs Operis."; [1]-86, Text.; [2 pgs], Blank.; [At end], 12 folding plates.

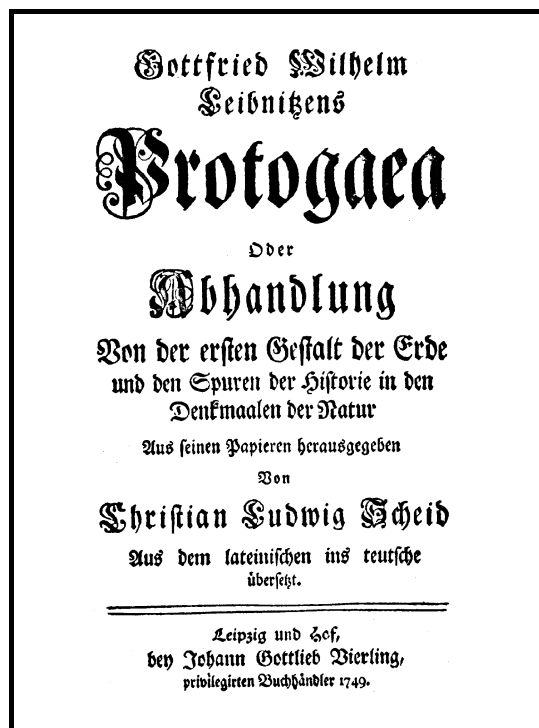
PLATES: The plates are signed N. Seelerider sc. and consist of the following subjects: I. Minerals and fossils, cave cross-section. II. Fossil fish. III-V. Fossil shells. VI. Fossil teeth. VII. Reproduction of Steno's shark's head and teeth plate. VIII. Fossils. IX. Fossil shells. X. Fossils. XI. Fossil skull and fossil teeth. XII. Mastadon tooth and fossil skeleton.

RARE. A great geological classic, which was published by this important mathematician and physiologist, who accepted in his "Protogaea" the Cartesian view, that primitive matter has a fluid consistency owing to the tremendous initial heat and that the earth's spherical form was derived from the aggregation of whirling ultimate elements or "monads" of matter. In place of the Cartesian principle of momentum, Leibniz starts from a dynamical basis and assumes a force which accomplished the separation of light from darkness or as he also expressed it the separation of the more "active" elements of the universe from the more "passive." (Zittel) The part dealing with mineralogy is much more practical as he became acquainted with the mines of the Harz in Germany and he gives account of the mode of occurrences of metals, minerals and fossils in Hannover and Brunswick.

The first description during his lifetime (1646-1716) was published in only 3 pages in the *Acta Eruditorum* in 1693 without the plates, and this paper remained in a manuscript until it was posthumously

published in 1749. However the modern translation into German was published in 1949 by Von Engelhardt.

REFERENCES: *Freilich Sale Catalog*: no. 343. • Hoover Collection: no. 521. • LKG: XVII 30 & 31. • Nissen (ZBI): no. 2428. • Norman Catalog: 1, ??, no. 1328. • Ward & Carozzi, *Geology Emerging*, 1984: no. 1358. • Wellcome Catalog (Books): 3, 482. • Zittel, *History of Geology*, 1901: p. 27-8.



PROTOGAEA, 1749

**2952. German transl., 1749:** Gottfried Wilhelm | Leibnitzens | Protogaea | Oder | Abhandlung | Von der ersten Gestalt der Erde | und den Spuren der Historie in den | Denkmahlen der Natur | Aus seinen Papieren herausgegeben | Von | Christian Ludwig Scheid | Aus dem lateinschen ins teutsche | übersetzt. | [double rule] | Leipzig und Hof, | bey Johann Gottlieb Vierling, | privilegirten Buchhändler 1749.

4°: 124 p.

VERY RARE. "Vorbericht des Uebersetzers" signed: M.W.L.G. The translation was edited by Christian Ludwig Scheid.

REFERENCES: BL. • NUC.

**LEIGH, Charles.** (BORN: Singleton Grange, England, 1662; DIED: 1701?) *English physician & antiquarian.*

Leigh graduated with a B.A. from Oxford in 1683, then in 1689 he received his M.D. from Cambridge. He had a medical practice in London, which he later moved to Manchester. He also had an extensive practice throughout Lancashire. Leigh was elected a Fellow of the Royal Society in 1685, and before that organization he read many papers.

REFERENCES: Allibone, *Dictionary of English Literature*, 1859-71. • BBA: I 678, 38-49. • DNB: 11, 872-3. • Poggendorff: 1, col. 1416. • Watt, *Bibliotheca Britannica*, 1824. • WBI.



LEIGH

**2953. — English, 1700.**

[Contained within a double rule box:] The | Natual History | Of | Lancashire, Cheshire, | And The | Peak, in Derbyshire: | With An | Account | Of The | British, Phœnician, Armenian, Gr. and Rom. | Antiquities | In Those | Parts. | [rule] | By Charles Leigh, | Doctor of Physick. | [double rule] | Oxford: | Printed for the Author; and to be had at Mr. George West's, | and Mr. Henry Clement's, Booksellers there; Mr. Edward Evet's, | at the Green-Dragon, in St. Paul's Church-yard; and Mr. John | Nicholson, at the King's-Arms, in Little-Britain, London. MDCC.

2°: \*2 X-Z<sup>2</sup> Aa-Oo<sup>2</sup>; 239ℓ.; [20], 196, [2], 97 p., [2], 80 (i.e., 88), [4], 81-112, [36] p., frontispiece (shows portrait of the head and shoulders of Charles Leigh within an oval frame), 10 plates. The illustrations consist of twenty-two full-paged engravings, a double-paged map with contemporary coloring, two pages of the arms of the subscribers, and a portrait of the author. PAGE SIZE: 224 x 346 mm.

CONTENTS: [2 pgs/=π1rv], Title page, verso "Imprimatur | ..."; [4 pgs/=A1r-A2v], Dedication to James Duke of Ormund.; [4 pgs/=a1r-a2v], Dedication to William Duke of Devonshire.; [2 pgs/=a1rv], "The | Epistle | To The | Candid Reader."—signed Charles Leigh.; [8 pgs/=b1r-c2v], "The | Preface."; [2 pgs/=χ1rv], Dedicatory poem to C. Leigh, signed R.J.; [4 pgs/=χ2r-χ3v], Subscriber's list.; [1 pg/=χ4r], "Advertisement."; [1 pg/=χ4v], Blank.; [2 plates showing the coat-of-arms of each subscriber].; [one folding double-page colored map titled, "A New Map of Lancashire, Cheshire & Derby."]. 1-164 (B1r-Tt2v), Text of the first book.; [1 pg/=χ1r], "Errata in the First Book."; [1 pg/=χ1v], Blank.; [Plate 1: Undulating sound].; [1 pg/=χ1r], "An Explanation of Mr. Burgher's first Plate."; [1 pg/=χ1v], Blank.; [Plate 2: Barometers].; [4 pgs/=\*\*\*1r-\*\*\*2v], "An Explanation of the Cuts contain'd in the | Second Plate."; [1 pg/=χ1r], Blank.; [Plate 3: Fossil shells in matrix].; [3 pgs/=χ1v-χ2v], "An Explanation of the Cuts contain'd in the Plate | marked Fig. 1."; [Plate 4: Shells, bivalves, fossil shells].; [2 pgs/=χ3rv], "An explication ... marked Fig. 2."; [Plate 5: Fossil shells

## LENK

and stones]; [2 pgs/=Aa1rv], "An explication ... Fig. 3."; [Plate 6: Canoe, axe heads, arrow tips]; 181-182 (Aaa2rv), "An explication ... Fig. 4."; 183-184 (Bbb1rv), "The Head of a oung Hippopotamous."; [Plate "5": Skull with antlers attached]; [Plate 6: Various fish and a seal]; 185-186 (Bbb2rv), "Explication of Fig. 6."; [Plate "6": Interior of a large cave]; 187-191, "Explication of Fig. 6."; [Plate 7: Devil's arse]; 192-194, "Explication of Fig. 7."; [Plate 8: Table of birds]; 195-196, Description of the birds plate.; [2 pgs], "The Author's Vindication of himself, ..."; [1]-97 (A1r-Bb1r), "... Book II."; [1 pg/=Bb1v], Blank.; [1 pg/=Bb2r], "Errata."; [1 pg/=Bb2v], Blank.; [Plate Tab II: Trees and equipment]; 1-80 (A1r-V2v), "... Book III."; [1 pg/=X1r], "Postscript."; [1 pg/=X1v], Blank.; [1 pg/=X2r], "Errata in the Third Book."; [1 pg/=X2v], Blank.; 81-112 (X1r-Ee2v), Plates labeled "Tab I" to "Tab X" interspersed with descriptive text. These all show various artifacts and antiquities, especially ancient coins.; [35 pgs/=Ff1r-Oo2r], "The I Index."; [1 pg/=Oo2v], Blank.

VERY SCARCE. Leigh, remembered primarily as a naturalist and a Fellow of the Royal Society, was a physician by profession. He published several works, the most important of which is a Natural History of Lancashire, Cheshire, and the Peak of Derbyshire" (Thomas).

The text of this volume is most intriguing: it is a catalogue of antiquities, an archaeological survey, and, excuse the modern parlance, a freak show, all in one. One of the authors many goals is to demonstrate and prove, by producing artifacts and animals from far-flung corners of the world, that a huge flood covered the whole earth and dislodged hippos from the home lands, and planted them in the mud of Lancashire. In addition to the text, one is treated to illustrations of such rare and wonderous objects as the The devils arse and a woman with horns, among others.

REFERENCES: LKG: XIV 410. • Madan, *Oxford Books*, 1895-1931.

**LEMPE, Johann Friedrich.** (BORN: Weida, Kreis Neustadt, Germany, 7 March 1757; DIED: Freiberg, Germany, 6 February 1801) *German mining engineer.*

Lempe was professor of mathematics and physics at the mining academy in Freiberg. He authored works on technology and mining and edited the 13 volumes of the *Magazin für Bergbaukunde* (1785-99).

REFERENCES: ADB. • DBA: I 752, 406-412. • Hamberger & Meusel, *Gelehrte Teutschland*, 1796-1834. • Jöcher, *Gelehrten-Lexikon*, 1750-51. • Poggendorff: 1, col. 1421. • Schiffrer, *Alter Freiburger Bergstudenten*, 1935-40: 1, 241 & 3, 160. • WBI.

*Magazin der Bergbaukunde* (Dresden, 1785).

See: *Magazin Der Bergbaukunde*.

**2954. — German, 1787.**

Bermännisches Rechenbuch. Freiberg, S.F. Barthel, 1787.

8°: [32], 580 p.

RARE. The foreword is dated 1 May 1787, and signed by Lempe. Here an account of the mathematics required for foremen and supervisors in the mining industry is presented. Information on the various measurement systems for weight, length, volume, and currencies for other European countries is included.

REFERENCES: BL. • Jonathan Hill, Bookseller: cat. 11

(1983), no. 100. • *Katalog Bergakademie Freiberg*, 1879: p. 399 [II. 167.]. • NUC: [no copy listed].

**LENK, Johann Wenzel.**

REFERENCES: DBA: I 753, 263. • WBI.

**2955. — German, 1818.**

Neue | Entdeckung eines Steins, | nach systematischer Benennung des unterzeichneten | Erfinders, | Serpentin=Agath, | zum wesentlichen | Zweck und Erweiterung | der | Mineralogie, | auch | technisch= ökonomischer Gegenstände, mit Hinsicht | auf die Beförderung des Commerzes im Staate | von | Johann Wenzel Lenk. | [ornament] | [tapered rule] | Zweyte Auflage. | [tapered rule] | Wien 1818. | Gedruckt bey Felix Stöckholzer von Hirschfeld.

4°: [1]-24 p. Description of a newly discovered type of agate. VERY RARE.

REFERENCES: Sinkankas, *Gemology Bibliography*, 1993: [no copy listed].

**LENZ, Harald Othmar.** (BORN: Schnepfenthal, Germany, 27 February 1798; DIED: Schnepfenthal, Germany, 13 January 1870) *German botanist, zoologist & classical scholar.*

Lenz studied classical philology and natural sciences at the Universities of Göttingen, Leipzig and Halle. He became a instructor of ancient languages and natural science at the University of Göttingen.

REFERENCES: ADB: 18, 278-9. • DBA: I 754, 158; II 803, 77. • NDB: 14, 225-6 [by K. Mägdefrau]. • Wagenitz, *Göttinger Biologen*, 1988: 109-10. • WBI.

**2956. — German, 1861.**

Mineralogie | der | alten Griechen und Römer, | deutsch in Auszügen aus deren Schriften, | nebst Anmerkungen | von | Dr. Harald Othmar Lenz, | Herzögl. Sächs. Professor, Lehrer an der Erziehungsanstalt zu Schnepfenthal. | [ornate rule] | Gotha, | Verlag von E.F. Thienemann. | 1861.

8°:  $\pi^4$  1-12<sup>8</sup> 13<sup>1</sup>; 101 $\ell$ .; [i]-viii, [1]-194 p. PAGE SIZE: 219 x 136 mm.

CONTENTS: [i-ii], Half title page, "Mineralogie | der | alten Griechen und Römer," verso blank.; [iii-iv], Title page, verso blank.; [v]-viii, Contents and an index to the mineral substances mentioned in the text.; [1]-189, Text.; [190]-194, "Nachträge."

RARE. An expert in Greek and Latin, the author spent part of his lifetime dissecting and categorizing through careful research ancient texts on natural history. These studies were then carefully compiled and eventually published as a series of three books that each related one of the three natural realms back to its early Greek and Roman roots. Lenz' studies in mineralogy are assembled in this work. It discusses with numerous examples, the contributions of 37 ancient authors discovered by the author to have written on minerals and related subjects. The authors are in chronological order beginning with the writings of Homer at 1000 B.C. and progressing through the era of the Romans. The largest sections cover the writings

of Theophrastus and Pliny; however, the value of this study are the obscure references included by Lenz, that in this modern age would have otherwise been lost.

**Facsimile reprint, 1966:** Mineralogie | ... | Wiesbaden | Dr. Martin Sändig oHG. 8<sup>o</sup>: [iii]-viii, [1]-194 p.

[iii-iv], Title page, verso "1966 | Unveränderter Neudruck der Ausgabe 1861. | Printed in Germany – Bestell – Nummer 1812."; [v]-viii, Contents and an index to the mineral substances mentioned in the text.; [1]-189, Text.; [190]-194, "Nachträge."

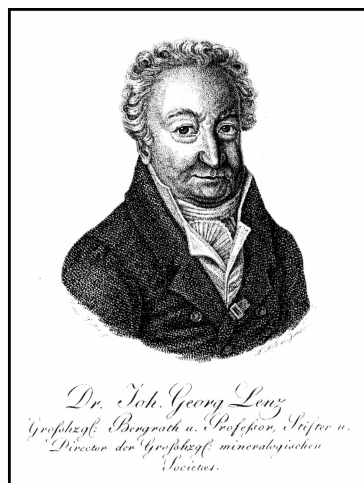
REFERENCES: BMC: 3, 1090. • Sinkankas, *Gemology Bibliography*, 1993: no. 3872.

**2957. 1846-75:** Gemeinnützige Naturgeschichte, herausgegeben von O. Burbach. Gotha, E.F. Thienemann's Hofbuchhandlung, 1846-1875.

5 vols. [VOL 1] 8<sup>o</sup>: [6], 650 p., 12 plates. [VOL 2] 8<sup>o</sup>: ix, [1], 641, [3] p., 12 plates. [VOL 3] 8<sup>o</sup>: viii, 518, [2] p., 8 plates. [VOL 4] 8<sup>o</sup>: viii, 664 p., 10 plates. [VOL 5] 8<sup>o</sup>: x, [2], 328 p., 8 plates.

VERY SCARCE. This series covers many aspects of natural history including mineralogy. Volume one covers animals, two birds, three amphibians, fish and worms, four plants, and five minerals.

REFERENCES: NUC. • USGS Library Catalog.



LENZ

**LENZ, Johann Georg.** (BORN: Schleusingen, Germany, 2 April 1748; DIED: Jena, Germany, 28 February 1832) *German theologian & mineralogist.*

Lenz went to the University of Jena in 1765, receiving his Doctor of Philosophy and Theology in 1770. He became a private docent with in the faculty of the department of philosophy. He continued to pursue theological studies for a time, but eventually he became interested in scientific studies, especially mineralogy. The study of minerals suited Lenz, and the newly invented system of A.G. WERNER, opened new worlds of discovery for him. Lenz choose to pursue a career in the field, and consequently, he was made a professor of mining and mineralogy at the University of Jena. When the University acquired J.E.I. WALCH's mineral collection, Lenz was made its curator. Lenz was a founding member and driving force behind the SÖCIETÄT FÜR DIE GESAMMTE MINERALOGIE in Jena, which was the first society devoted to mineralogical studies. A mineral collection he assembled for his own studies was purchased in 1799 by the Dutchman Marinus van Marum [1750-1837] and eventually incorporated into Teyler's Museum in Haarlem.

REFERENCES: ADB: 18, 276-7. • Csiky, G., "The role of Hungarian naturalists in the establishment and operation of the 'Mineralogische Söciete' in Jena, including its influence on the development of the earth sciences in Hungary" (pp. 423-40), in: Vitális and Kecskeméki, eds., *Museums and Collections in the History of Mineralogy, Geology and Paleontology in Hungary*. Budapest, 1991. • DBA: I 754, 201-213; II 803, 99. • Günther, *Lebensskizzen der Professoren*, 1858. • Hamberger & Meusel, *Gelehrte Deutschland*, 1796-1834. • Lambrecht & Quenstedt, *Catalogus*, 1938: 258. • Linck, G., *Goethes Verhältnis zur Mineralogie und Geognosie. Rede gehalten zur Feier der akademischen Preisverteilung am 16. Juni 1906*. Jena, Fischer, 1906. 4<sup>o</sup>: 48 p., one plate (portraits of Goethe and Lenz), one facsimile letter between Goethe and Lenz.. • *Neue Nekrolog der Deutschen*: 10 Jahrgang, 127. • Poggendorff: 1, cols. 1423-4. • Salomon, *Sozietät für Mineralogie zu Jena*, 1990. • Sarjeant, *Geologists*, 1980: 3, 1552. • WBI. • Wilson, *History of Mineral Collecting*, 1994. • Wilson, W.E., "Johann Georg Lenz and his Mustertafeln 1794," *Mineralogical Record*, 27 (1996), no. 3, 191-5, portrait, biblio.

## 2958. — German, 1780.

Tabellen über die Versteinerungen. Jena, 1780.

8<sup>o</sup>: VERY SCARCE.

REFERENCES: BL: [B.368.(2.)]. • *Freilich Sale Catalog*: no. 344. • LKG: XVII 59.



TABELLEN, 1781

## 2959. — German, 1781.

Tabellen | Über | Das Gesamte | Steinreich | Entworfen | Von | Johann Georg Lenz, [...5 lines of titles and memberships...] | [ornament] | [rule] | Jena | bey Joh. Rudolph Croeckers seel. Wittwe. | 1781.

8<sup>o</sup>: [4] p., 27 tables (on double leaves).

CONTENTS: [2] pgs], Title page, verso blank.; [4] pgs], Dedication to Professoren Loder, signed Johann Georg Lenz, 6 May 1781.; [2] pgs], "Vorrede."; 27 Tabellen.

VERY RARE. We learn from the foreword that Lenz prepared these tables for sketching out the properties of the mineral kingdom to help reinforce his own understanding of the properties of the species.

REFERENCES: BL: [B.372.(1.)]. • BMC: 3, 1090. • Dana's 7th (Bibliography): 76. • Gatterer, *Mineralogischen*

## LENZ

*Literatur*, 1798-9: 1, 28. • GV (1700-1910): 87, 56-7. • LKG: XII 87. • NUC: 326, 614 [NL 0258878].

**2960. Dissertation, 1788:** Diss. mineralogica de venarum metalliferarum origine, quam-def. J.G. Lenz. Jenæ, 1788.

8°: VERY SCARCE. Dissertation—Johann Georg Lenz, respondent?

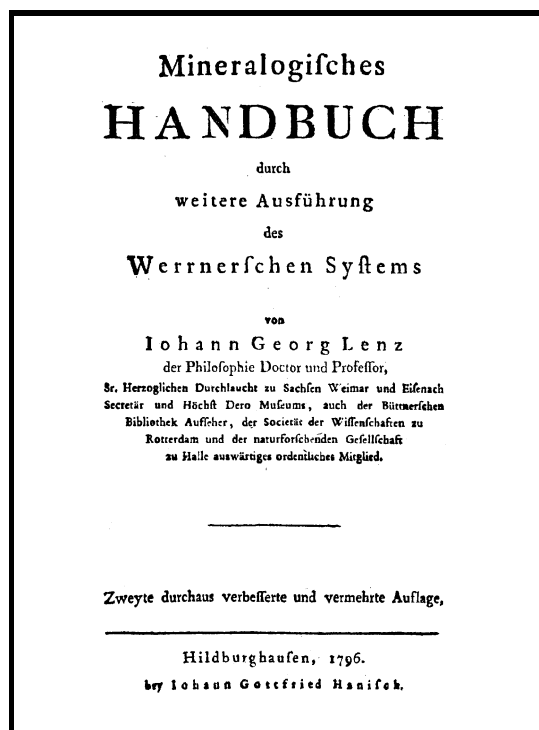
REFERENCES: BL: [no copy listed]. • LKG: XIII 180.

**2961. — German, 1791** [First edition].

Mineralogisches Handbuch, durch weitere Ausführung des Wernerschen Systems, geliefert von M. Johann Georg Lenz ... Hildburghausen: Bey Johann Gottfried Hanisch, 1791.

8°: xxviii, 314, [10] p. VERY SCARCE.

REFERENCES: *Allgemeine Deutsche Bibliothek*: 111, no. 2, 475. • Beekman, *Systematische Mineralogie*, 1906: 81. • BL: [726.f.6.]. • BMC: 3, 1090. • CBN: 94, col. 1086. • Dana's 7th (Bibliography): 76. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 54. • GV (1700-1910): 87, 56-7. • LKG: XII 88a. • NUC: 742, 490 [NSL 0018799]. • Partsch, *Katalog der Bibliothek*, 1851: no. 109.



MINERALOGISCHES HANDBUCH, 1796

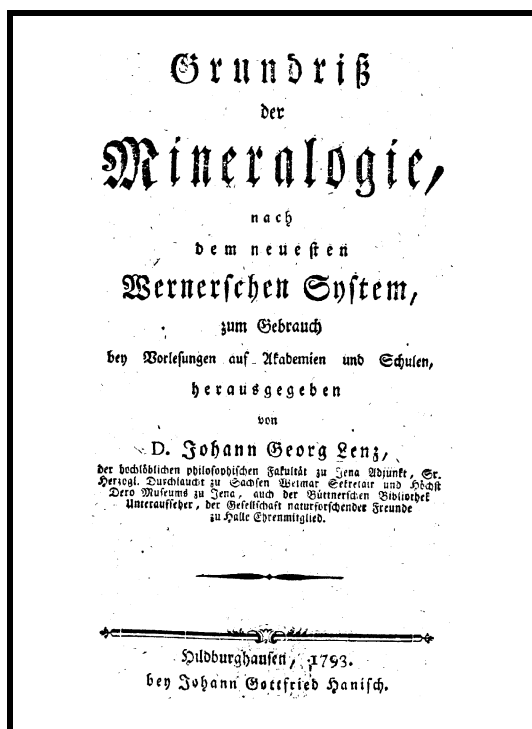
**2962. 2nd edition, 1796:** Mineralogisches | Handbuch | durch | weitere Ausführung | des | Wernerschen Systems | von | Johann Georg Lenz | [...6 lines of titles and memberships...] | [rule] | Zweyte durchaus verbesserte und vermehrte Auflage. | [rule] | Hildburghausen, 1796. | bey Johann Gottfried Hanisch.

8°: a-c<sup>8</sup> A-2F<sup>8</sup> \*<sup>3</sup>; 283ℓ.; i-xxxxviii, [1]-460, [I]-LVI, [2] p. PAGE SIZE: 200 x 115 mm. VERY SCARCE.

CONTENTS: [i-ii], Title page, verso blank.; [iii], Dedication.; [iv], Blank.; [v]-viii, "Vorrede | zur ersten Auflage."—dated May 1791.; [ix]-xvi, "Vorrede |

zur zweyten Auflage."—dated September 1796.; [xvii], Sectional title page, "Tabellarische Uebersicht | der | mineralogisch=einfachen | Mineralien | nebst | beygesetzten | deutschen trivialen Namen."; [xviii], Blank.; [xix]-xxxviii, Tables.; [1], "Der | mineralogisch-einfachen | Mineralien | Erste Klasse. | Erd- und Steinarten."; [2], Blank.; [3]-460, Text.; [I]-XXXIV, "Anhang II. | Tabellarische Uebersicht | der | mineralogisch-einfachen | Mineralien | nach ihren | vorwaltenden Bestandtheilen."; [XXXV]-LVI, "Register."; [2 pgs], "Zusätze und Verbesserungen."

REFERENCES: BL: [726.f.7. (gives 1786 as year)]. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 54 [gives 1797 as the year]. • GV (1700-1910): 87, 56. • Hoover Collection: no. 522. • LKG: XII 88a. • NUC: 326, 614 [NL 0258874]. • *Selmeci Múemlékkönyvtár Kötetkatalogusa*: 84, no. 445.



GRUNDRIS, 1793

**2963. — German, 1793.**

Grundriß | der | Mineralogie, | nach | dem  
neuesten | Wernerschen System, | zum Gebrauch  
| bey Vorlesungen auf Akademien und Schulen, |  
herausgegeben | von | D. Johann Georg Lenz, |  
[...5 lines of titles and memberships...] | [ornate rule] |  
[ornate rule] | Hildburghausen, 1793. | bey Johann  
Gottfried Hanisch.

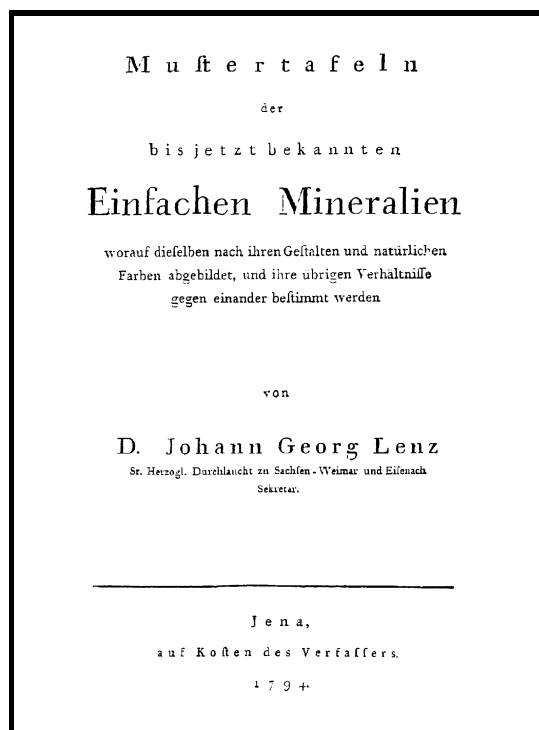
8°: [i]-xxviii, [1]-314, [10] p. PAGE SIZE: 195 x 115 mm.

CONTENTS: [i-ii], Title page, verso blank.; [iii], Dedication to D. Heinrich Stephani.; [iv], Blank.; [v]-[vi], "Vorrede"—dated 20 March 1793.; [vii]-xxviii, "Werners | Mineralsystem."; [1]-314, Text.; [9 pgs], "Register."; [1 pg], "Druckfehler," starting on previous page and carried over.



VERY SCARCE. This is a reissue of the text of *Mineralogisches Handbuch* (Hildburghausen, 1791), together with a new title page and preliminaries. Lenz was a strong advocate of Werner's doctrines and his *Handbuch*, i.e. *Grundriß*, is one his more elaborate expositions. The author makes frequent reference to other mineralogists, including Gerhard, Gmelin, Achard, Kirwan, Wallerius and Cronstedt. Lenz also provides synonyms, references to the relevant literature, and detailed notes for each mineral described.

REFERENCES: BL: [974.b.19.]. • BMC: 3, 1090. • Dana's 7th (Bibliography): 76. • GV (1700-1910): 87, 56. • LKG: XII 89b. • NUC: 326, 614 [NL 0258873: gives pagination: xxxx, 192 p.].



MUSTERTAFELN, 1794

## 2964. — German, 1794.

Mustertafeln | der | bis jetzt bekannten | Einfachen Mineralien | worauf dieselben nach ihren Gestalten und natürlichen | Farben abgebildet, und ihre übrigen Verhältnisse | gegen einander bestimmt werden | von | D. Johann Georg Lenz | Sr. Herzogl. Durchlaucht zu Sachsen-Weimar und Eisenach | Sekretär. | [rule] | J e n a, | auf Kosten des Verfassers. | 1794.

8°: [8], [1]-111, [1] p., 400 watercolor illustrations of minerals.

CONTENTS: [2 pgs], Title page, verso blank.; [2 pgs], Dedication to Mrs Annen Amalien.; [2 pgs], "Vorrede."; [2 pgs], "Verzeichniss der Pränumeraten und

Subscribenten."; [1], "Mustertafeln."; 2-111, Text of tables.; [1 pg], Gedruckt mit Göpferdschen Schriften."

VERY RARE. Based on Wernerian principals, *Mustertafeln* uses the physical qualities of minerals to create an elaborate, early field guide to mineral determination. In the forward, Lenz states that these "Mustertafeln" or specimen tables are intended to help friends of mineralogy become acquainted with the simple minerals. This book is admirable for that purpose as it consists of tables divided into color, external form, break or fracture, transparency and lusture, hardness and finally the name of the mineral. Unique to this work are the four hundred water color drawings of minerals that are placed in the color column. These figures, each about one by one inch, are all rendered with quality and exactness as they were modeled from specimens contained in Carl August's [see note below] mineral collection. This volume is undoubtedly one of the rarest colored mineralogies. In the forward, Lenz laments that due to the high cost of production, only as many examples will be published as there are subscribers. This list is included in the volume and includes the names of Goethe, von Trebra, and Bertuch. But based on Lenz's statement, one can assume that the 26 copies purchased by the subscribers are all that were ever produced.

**Facsimile reprint, 1996:** *Mustertafeln der bis jetzt bekannten einfachen Mineralien ...* Tucson, Arizona, The Mineralogical Record, 1996.

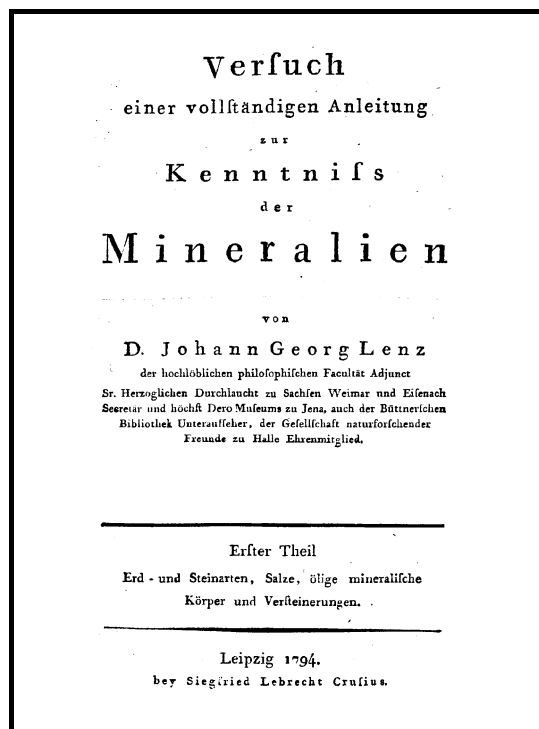
**Carl August.** (BORN: 1757; DIED: 1828) *German monarch.* Born the eldest son of Ernst August Constantine [??-1758] and Anna Amalia [1739-1807], Carl became Duke of Saxe-Weimar at the age of one year when his father died. He attained the title of Grand Duke in 1815. His mother, who acted as his Regent until he came of age in 1775, had a profound influence upon her son. It was through her guidance that Carl developed an early interest in literature, art and science. Through friendships with Goethe and Lenz, he eventually became a mineral enthusiast, and consequently founded in 1779 the mineral collection at the University of Jena with the purchase of JOHANN ERNST IMMANUEL WALCH's mineral and fossil collection.

REFERENCES: BL: [no copy listed]. • BMC: 3, 1090. • Dana's 7th (Bibliography): 76. • GV (1700-1910): 87, 56. • LKG: XII 91d. • NUC: 326, 624 [NL 0258876]. • Ward & Carozzi, *Geology Emerging*, 1984: no. 1365. • Wilson, W.E., "Johann Georg Lenz and his Mustertafeln 1794," *Mineralogical Record*, 27 (1996), no. 3, 191-5, portrait, biblio: 27 (1996), no. 3, 191-5, portrait, biblio. (**August**) Carl August-Bibliographie. Jena, 1933, 280 p. • Carl August, Herzog von Sachsen-Weimar, Briefe des Herzogs an seine Mutter die Herzogin Anna Amalia. Oktober 1774 bis Januar 1807. Jena, 1938, 221 p. • Egloffstein, H.Frhr.v., *Carl August auf dem Wiener Kongreß. Zur Jahrhundertfeier des Bestehens des Großherzogtums Sachsen-Weimar, Eisenach*, Fischer, 1915, 199 p., one portrait. • Wilson, W.E., "Johann Georg Lenz and his Mustertafeln 1794," *Mineralogical Record*, 27 (1996), no. 3, 191-5, portrait, biblio.

## 2965. — German, 1794-5.

Versuch | einer vollständigen Anleitung | zur | Kenntniss | der | Mineralien | von | D. Johann Georg Lenz | [...5 lines of titles and memberships...] | [rule] | Erster Theil | Erd- und Steinarten, Salze, ölige mineralische | Körper und Versteinerungen.





VERSUCH, 1794

[tapered rule] Leipzig 1794. | bey Siegfried Lebrecht Crusius.

2 vols. [VOL 1: 1794] 8°: [26], [1]-640, [20] p.; [VOL 2: 1795] 8°: [12], [1]-428, [14] p. PAGE SIZE: 192 x 120 mm.

CONTENTS: [Vol 1] [2 pgs], Title page, verso blank.; [12 pgs], Dedication to multiple people, signed Johann Georg Lenz, 23 April 1794.; [10 pgs], "Vorrede."—dated April 1794.; [1 pg], Sectional title page, "Erster Theil. | Erd- und Steinarten, Salze, | ölige mineralische Körper und | Versteinerungen."; [1 pg], Blank.; [1]-640, Text.; [18], "Register."; [2 pgs], "Zusätze und verbesserungen."

[Vol 2] [2 pgs], Title page, verso blank.; [4 pgs], "Vorrede."—dated October 1794.; [6 pgs], "Einleitung | in | die Metalle."; [1]-420, Text.; [10 pgs], "Register."; [2 pgs], "Anhang."; [1 pg], "Verbesserungen."; [1 pg], Blank.

RARE. This is the descriptive work referred to in Lenz' very rare "Mustertafeln" (Jena, 1794). The individual illustrations of the Mustertafeln are correspondingly numbered to descriptions in Lenz' "Versuch einer vollständigen Anleitung". In this work volume one (1794) describes the earth's, stones, salts, organic minerals and petrifications. Volume 2 (1795) covers the metals and petrology.

Contents: 1. Erd- und Steinarten, Salze, ölige mineralische Körper und Versteinerungen; 2. Metalle und Gebirgsarten.

REFERENCES: *Allgemeine Literatur-Zeitung*: May 1795, 337 & August 1795, 405. • BL: [953.d.8.]. • BMC: 3, 1090. • CBN: 94, col. 1087. • Dana's 7th (Bibliography): 76. • *Freilich Sale Catalog*: no. 345. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 30. • GV (1700-1910): 87, 56-7. • LKG:

XII 90c. • *Neue Allgemeine deutsche Bibliothek*: 16, no. 2, 465. • NUC: 326, 614 [NL 0258880].

## 2966. — German, 1798-9.

Mineralogisches | Taschenbuch | für | Anfänger und Liebhaber. | Entworfen | von | Johann Georg Lenz, | [...10 lines of titles and memberships...] | Erstes Bändchen. | Die mineralogisch=einfachen Mineralien. | [rule] | Erfurt, 1798. | in der Henningschen Buchhandlung.

[TITLE PAGE OF VOLUME 2 READS:]

Mineralogisches | ... | Zweytes Bändchen. | Die Metalle. | [rule] | Erfurt, 1799. | in der Henningschen Buchhandlung.

2 vols. [VOL 1: 1798] 8°: [VOL 2: 1799] 8°: VERY SCARCE.

REFERENCES: BL: [445.a.27.]. • CBN: 94, col. 1087. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 55. • GV (1700-1910): 87, 56-7. • LKG: XII 92e. • NUC: 326, 614 [NL 0258875].

## 2967. — German, 1800 [First edition].

System | der | äusseren Kennzeichen | der | Mineralien, | in | deutscher, lateinischer, italienischer, französi- | scher, dänischer und ungarischer Sprache. | mit | erläuternden Anmerkungen. | [tapered rule] | von | Johann Georg Lenz, | [...11 lines of titles and memberships...] | [tapered rule] | Bamberg und Würzburg, | bey Tobias Göbhard sel. Wittib. | 1800.

[SECTIONAL TITLE PAGE:]

Tabellarische Uebersicht | der | mineralogisch – einfachen | Mineralien.

8°: A-I<sup>8</sup> K<sup>3</sup> \*-\*\*\*\*8; 91ℓ.; [1]-150, [1]-32 p., tables. PAGE SIZE: 186 x 110 mm.

CONTENTS: [1-2], Title page, verso blank.; [3]-150, Text.; [1], Sectional title page.; 2-32, Text consisting of tables of mineral names arranged under standard headings.

VERY SCARCE. This work is divided into two distinct parts, which perhaps indicates that the second portion was issued separately. The first part lists the external characteristics used in Wernerian doctrine to determine the species of a mineral. Under each property, the equivalent names of the property in Latin, Italian, French, Danish and Hungarian are also listed. For example, the first external character listed is "Die Farbe." Underneath this property are listed color (Latin), il color (Italian), la couleur (French), Farven (Danish) and à Szin (Hungarian). At that time, this work would have been useful as a translation dictionary for studying the proliferation of mineralogical literature published in languages other than German.

After page 150, with its own sectional title page is the second part of the work. This portion provides a tabular overview of the mineralogical basics for the species. The headings of the columns are "Klassen," "Geschlechter," "Gattungen" and "Arten," with individual species names listed under the

appropriate heading.

REFERENCES: BL: [726.f.9.]. • CBN: **94**, col. 1087. • Dana's 7th (Bibliography): 76. • GV (1700-1910): **87**, 56. • Hoover Collection: no. 523. • LKG: IX 25 & XII 93f. • NUC: **326**, 614 [NL 0258877]. • Ward & Carozzi, *Geology Emerging*, 1984: no. 1366.

**2968. — German, 1800** [First edition].

System | der | Mineralkörper, | mit | Benutzung der neuesten Entdeckungen. | [tapered rule] | von | Johann Georg Lenz, | [...11 lines of titles and memberships...] | [tapered rule] | Bamberg und Würzburg, | bey Tobias Gö'hard sel. Wittib. | 1800.

8°: [4], iv, xvi, 582, [8] p.

VERY SCARCE. This book continues Lenz' system of mineralogy, but includes the latest discoveries in mineralogy, especially concerning the chemical composition of minerals.

REFERENCES: BL: [726.f.8.]. • CBN: **94**, col. 1087. • *Freilich Sale Catalog*: no. 346. • GV (1700-1910): **87**, 56. • LKG: XII 93f.

**2969. 2nd edition, 1809:** System der Mineralkörper mit Benutzung der neuesten Entdeckungen. Bamberg und Würzburg: Tobias Göbhard, 1809.

8°. VERY SCARCE.

REFERENCES: BL: [no copy listed]. • Dana's 7th (Bibliography): 76. • LKG: XII 95h.

Annalen der Söcietät für die gesamte Mineralogie. Herausgegeben von Johann Gottlob Lenz und Johann Friedrich Heinrich Schwabe. (Jena & Leipzig, 1802).

[CONTINUED UNDER THE TITLE:]

Schriften der Herzoglichen Societät für die gesammte Mineralogie zu Jena. Herausgegeben von Johann Georg Lenz. (Jena, 1804-6).

[CONTINUED UNDER THE TITLE:]

Neue Schriften der Grossherzoglich S. Societät für die gesammte Mineralogie in Jena. Herausgegeben von D. Johann Georg Lenz ... und D. Johann Friedrich Heinrich Schwabe. (Neustadt an der Oder, 1806-25).

See: Jena, Germany. Societät Für Die Gesammte Mineralogie.

**2970. — German, 1806.**

Tabellen über das gesammte Mineralreich, mit Rücksicht auf die neuesten Entdeckungen und mit einigen erläuternden Anmerkungen, herausgegeben von Johann Georg Lenz. Jena, Bei Göpferdt, 1806.

2°:

VERY SCARCE. These tables, which were written in conjunction with the author's mineralogical lectures, decay into three principal divisions. The first handles the external characters, the second the simple minerals, and the third the various types of rock.

REFERENCES: BL: [no copy listed]. • CBN: **94**, col. 1087. • Dana's 7th (Bibliography): 76. • GV (1700-1910): **87**, 56. • Leonard's *Taschenbuch*: 1 (1807), 326-30. • LKG: XII 94g. • Partsch, *Katalog der Bibliothek*, 1851: no. 284.

**2971. — German, 1813.**

Erkenntnisslehre | der | anorganischen | Naturkörper. | [tapered rule] | Mit Hinsicht auf die neuesten Entdeckungen und Be- | richtigungen, und mit sleter [??] Anwendung auf das | bürgerliche

Leben. | [tapered rule] | Für den Selbstunterricht bearbeitet | nebst | einem Versuche | zu einer | vergleichenden Mineralogie | von | Dr. Johann Georg Lenz, | [...4 lines of titles and memberships...] | Erster Band. | und | zweyten Bandes erster Abschnitt. | [tapered rule] | Giessen in Hessen | bey Gottgetreu Müller | 1813.

2 vols. [VOL 1] 8°: [VOL 2] 8°: VERY SCARCE.

REFERENCES: BL: [no copy listed]. • BMC: **3**, 1090. • GV (1700-1910): **87**, 56.

**2972. — German, 1819-22.**

Handbuch der Mineralogie. Giessen, C.G. Müller, 1819-22.

4 parts in 6 vols. 8°.

VERY SCARCE. The *Handbuch der Mineralogie* appears to be a series consisting of the following titles: *Darstellung der sämmtlund Erd- und Steinarten, mit Angabe ihrer Fundörter, physischen und chemischen Kennzeichen und Prüfungsarten und eren technischen Verwandung* (2 vols., Giessen, 1819), *Die Metalle. Ein Handbuch für Freunde der Mineralogie* (4 parts in 2 volumes, Giessen, 1819-20), *Die Gebürgsarten* (Giessen, 1820) and *Handbuch der vergleichenden Mineralogie* (2 vols., Giessen, 1819-20).

It is not clear that all the works were published and in the case of the last, only the first volume can be traced [see entry below].

REFERENCES: BL: [no copy listed]. • CBN: **94**, col. 1086. • *Freilich Sale Catalog*: no. 347. • GV (1700-1910): **87**, 56. • Partsch, *Katalog der Bibliothek*, 1851: no. 70.

**2973. — German, 1820.**

Versuch | einer | Vergleichenden Mineralogie | für | Anfänger und Freunde des Studiums der anorangischen Natur | von | Dr. Johann Georg Lenz, | [...17 lines of titles and memberships...] | [tapered rule] | Erster Band. | [ornate rule] | Giessen, bey C.G. Müller | 1820.

8°: VERY SCARCE.

REFERENCES: BL: [no copy listed]. • LKG: XII 90c.

**2974. — German, 1822.**

Handbuch der vergleichenden Mineralogie. Ein tabellarisches Hilfsbuch zur alsbaldigen Auffindung und Bestimmung der Mineralien. Erste Band. Giessen: C.G. Müller, 1822.

4°:

VERY SCARCE. No more published.

REFERENCES: CBN: **94**, col. 1086. • Dana's 7th (Bibliography): 76. • GV (1700-1910): **87**, 56. • *L'Espirit des Journal*: [no copy listed]. • Partsch, *Katalog der Bibliothek*, 1851: no. 267.

**2975. — German, 1800.**

Tabellarische Uebersicht | der | mineralogisch – einfachen | Mineralien.

4°: 32 p. VERY SCARCE.

REFERENCES: BL: [no copy listed].

**2976. — German, 1780.**

Tabellen über die Versteinerungen zum ersten  
Unterricht. Jena, 1780.

4°: [16] p., 15 tables.

VERY SCARCE. First edition. Paleontology?

REFERENCES: Beekman, *Systematische Mineralogie*, 1906: p. 81. • BL: [B.368.(2.)]. • Cobres, *Deliciae Cobresianæ*, 1782: 2., • Fischer, *Mineralogie in Sachsen*, 1939: p. 311. • Lambrecht & Quenstedt, *Catalogus*, 1938: p. 258.

**2977. — German, 1789.**

Kurze Abhandlung vom Basalte, vorzüglich dessen  
Ursprung betreffend. Jena, 1789.

8°:

VERY SCARCE. Basalt.

REFERENCES: BL: [no copy listed]. • LKG: XVI 116. • NUC: [no copy listed].

**Speculum Lapidum Clarissimi Artium  
Et Medicine Doctoris Camilli  
Leonardi Pisarenensis.**

**Valerii Superchii Pisarenensis Physici Epigramma.**

Quicquid in humanos gemmarum parturit usus  
Terra parens: uasti quicquid & unda maris,  
Quilibet exiguo claudis Leonarde libello  
Mirandum & feræ posteritatis opus.  
Quod positus Cæsar interdum perlegat armis:  
Seruariq; suas imperet inter opes  
Et tibi pro meritis æquos decernat honores:  
Consulat & famæ tempus in omnetuæ.



SPECULUM LAPIDUM, 1502

**LEONARDI, Camillo. Italian physician.**

REFERENCES: ABI: I 559, 381-384. • Jöcher, *Gelehrten-Lexikon*, Supplement. • WBI.

**2978. — Latin, 1502 [First edition].**

Speculum Lapidum Clarissimi Artium | Et  
Medicine Doctoris Camilli | Leonardi Pisarenensis.  
| Valerii Superchii Pisarenensis Physici Epigramma.  
| Q uicquid in humanos gemmarum parturit usus  
| Terra parens: uasti quicquid & unda maris.  
| Q uilibet exiguo claudis Leonarde libello |  
Mirandum/& feræ posteritatis opus. | Q uod

positis Cæsar interdum perlegat armis: | Seruariq;  
suas imperet inter opes | Et tibi pro meritis æquos  
decernat honores: | Consulat & famæ tempus in  
omnetuæ. | [Printer's device incorporating the initials  
I and B with a crown above a cat holding a mouse in  
its mouth.].

4°: a-p<sup>4</sup> q<sup>6</sup>; 66ℓ.; Foliated leaves [I]-LXVI  
(numbered on recto only). COLOPHON: Impresius  
Venetiis per Ioannem Baptistam Sesta Anno Dñi  
.M.D.II. Die Primo Decembris. PAGE SIZE: 200 x 150  
mm.

CONTENTS: [ℓ. I/=a1rv], Title page, verso blank;  
ℓ. Iir (=a2r), "Epistola."; ℓ. Iiv (=a2v), "Prohemivm.";  
ℓ. Ii-ℓ. Vr (=a3r-b1r), "Capitula Primi Libri." (=table  
of contents); ℓ. Vv-ℓ. LXVIr (=b1v-q6r), Text.; [ℓ.  
LXVIv/=q6v], Blank.

RARE. In this famous lapidary, Leonardi classifies  
over 250 types of hard gems and stones according to  
their color, hardness, porosity, weight and transparency.  
A third of the book is devoted to an alphabetical listing  
and description of particular stones, while another  
third is occupied with astrological and magical images  
carved on gems and their occult significance. The  
author, physician to Caesar Borgia, had gathered his  
materials from many of the older writers, but "he shows  
some indications of having come under the influence  
of the newer methods of study which were about to  
be advocated by Agricola and his followers, in that  
he treats of certain physical properties of minerals..."  
(Adams). Leonardo da Vinci is mentioned in a chapter  
on the masters in the art of gem cutting.

REFERENCES: Adams, *Birth and Development*, 1938:  
p. • BL: [458.a.29.]. • NUC: 327, 154 [NL 0264474]. •  
Roller & Goodman, *Catalogue*, 1976. • Sinkankas, *Gemology  
Bibliography*, 1993: no. 3891. • Stillwell (Science): no. 670.  
• Thorndike, *History of Magic*, 1923-58: 6, 298-302. •  
Wellcome Catalog (Books): 1, no. 3730.

**2979. 2nd edition, 1516:** Speculum Lapidum Clarissimi  
Artium | Et Medicine Doctoris Camilli | Leonardi  
Pisarenensis. | ¶ Valerii Superchii Pisarenensis Physici  
Epigramma. | ¶ Q uicquid in humanos gemmarum parturit  
usus | Terra parens: uasti quicquid & unda maris. |  
Q uilibet exiguo claudis Leonarde libello | Mirandum/&  
feræ posteritatis opus. | Q uod positus Cæsar interdum  
perlegat armis: | Seruariq; suas imperet inter opes | Et  
tibi pro meritis æquos decernat honores: | Consulat &  
famæ tempus in omnetuæ. | [Rectangular printers device  
incorporating the initials M and S with a crown above a  
cat holding a mouse in its mouth.].

4°: a-m<sup>4</sup> u<sup>4</sup> o-p<sup>4</sup> q<sup>6</sup>; 66ℓ.; Foliated leaves [I]-LXVI  
(numbered on recto only). COLOPHON: Impressum Venetiis  
per Melchiorem Sessam & Petrum de Rauanis sociis: Anno  
Domini. M. D. XVI. Die XX. Mensis Nouembris. PAGE  
SIZE: 210 x 150 mm.

CONTENTS: [ℓ. I], Title page, verso blank; ℓ. Iir-ℓ.  
Iiv, "Epistola."; ℓ. IIIr-ℓ. Vv, "...Capitula Primi Libri...";  
ℓ. Vv-ℓ. LXVIr, Text.; ℓ. LXVIv, Blank.

RARE. This second edition appears to be a slightly  
altered reprint of the 1502 text.

REFERENCES: BL: [1651/1575.]. • Hoover Collection:  
no. 524. • NUC: 327, 154 [NL 0264476]. • Sinkankas,  
*Gemology Bibliography*, 1993: no. 3892 [not seen].

**2980. 3rd edition, 1533:** Specvlvm La- | Pidvm Clarissimi  
Artium Et Medi- | Cinae Doctoris Camilli Le- | Onardi  
Pisarenensis. | Valerii, Svperchii Pisavren- | sis Physici,  
Epigramma. | Quicquid in humanos gemmarum parturit

vsus | Terra parens, vasti quicquid & vnda maris, |  
 Quanlibet exiguu claudis Leonarde libello, | Mirandum,  
 & serae posteritatis opus, | Quod positus Caesar interdum  
 perleget armis, | Seruarcq3 suas imperet inter opes. |  
 Et tibi pro meritis aequos decernat honores, | Consulat &  
 famae tempus in omne tuae. | Avgvstae Vindelcorvm  
 Excudebat | Henricvs Silicevs Mense Maio | Anno  
 M.D.XXXIII.

4<sup>o</sup>: A<sup>4</sup> 2A<sup>4</sup> B-Q<sup>4</sup> R<sup>3</sup>; 71ℓ.; [4]ℓ., 67 numbered ℓ.  
 COLOPHON: Excudebat Henricvs Silicevs Mense Maio, Anni  
 M.D.XXXIII. RARE.

REFERENCES: BL: [444.c.47.]. • NUC: 327, 154 [NL  
 0264477]. • Sinkankas, *Gemology Bibliography*, 1993: no.  
 3893.

**2981. 4th edition, 1610:** [Engraved title page: Specvlvm |  
 Lapidvm | Camilli | Leonardi. | Cui Accessit | Sympathia  
 | Septem Metallorum | ac septem selectorum | Lapidum  
 ad Planetas. | D. Petri Ar= | lensis de Scudalupis  
 | Presbyteri Hiero= | solimitani | [In another panel:]  
 Parisiis. | Apud Carolum Seuestre, & | Davidem Gilhū  
 via Jacobaea | e regione Mathurinorū, | Et | Joannem  
 Petitpas, via D. Joā. | Lateran. in collegio | Cameracensi.  
 | 1610. | Cum priuilegio [white space] Regis.

8<sup>o</sup>: a<sup>8</sup> e<sup>8</sup>, 16 A-Kk<sup>8</sup> Ll<sup>6</sup>; ??ℓ.; [44], [1]-244, [4], p. 345  
 (recte 245)-499, [1] blank, [36] p., 2 portraits (Duke of  
 Nivernois and Petrus Arlensis). Engraved title page. The  
 "Sympathia" (pp. 245-499) has a separate title page. RARE.

REFERENCES: BL: [990.a.2.]. • LKG: III 12. • NUC:  
 327, 154 [NL 0264478]. • Sinkankas, *Gemology Bibliography*,  
 1993: no. 3894. • Wellcome Catalog (Books): 1, no. 3731.

**2982. 5th edition, 1717:** [In black:] Camilli Leonardi | [in  
 red:] | Speculum Lapidum, | [in black:] Et | D. Petri  
 Arlensis | de Scudalupis, | Presbyteri Hierosolymitani, |  
 [in red:] Sympathia | [in black:] Septem Metallorum | Ac  
 Septem Selectorum Lapidum | Ad Planetas. | Accedit  
 | [in red:] Magia Astrologica | Petri Constantii Albinii  
 | Villanovensis. | [Rectangular ornament] | Hamburgi | [in  
 red:] Apud Christianum Liebezeit, 1717.

8<sup>o</sup>: a<sup>7</sup> b<sup>8</sup> A-Hh<sup>8</sup> Ii<sup>8</sup>; 270ℓ.; [30], 1-390 p.; [1]-84,  
 [36] p., frontispiece (portrait of Petrus Arlensis). PAGE SIZE:  
 158 x 94 mm.

CONTENTS: [Leonard's work:] [2 pgs], Title page,  
 verso blank; [5 pgs], Dedication to Carolo Gonsageo  
 Clevesio, dated 5 December MDCIX (1509); [1 pg], "Ad  
 Invictissimvm."; [3 pgs], "Hermetimagno."; [3 pgs], "Ad  
 Evndem."; [6 pgs], Author, Omnibus.; [7 pgs], "Lazarvs  
 Mozenighvs."; [2 pgs], "Camillvs Leonardvs."; [1 pg],  
 "Camili Leonardi."; 1-390, Text.

[Albini's work:] [1-2], Title page, verso blank; 3-8,  
 "Præfatio."; 9-84, Text.; [36 pgs], "Index Generalis."

VERY SCARCE. Contents: "Sympathia septem metal-  
 lorum ac septem selectorum lapidum ad planetas. Doct.  
 Petri Arlensis, de Scudalupis" (pp. 187-390).

REFERENCES: BL: [957.c.24.]. • Duveen, *Bibliotheca  
 Alchemica et Chemica*, 1965: p. 352. • NUC: 327, 154 [NL  
 0264479]. • Sinkankas, *Gemology Bibliography*, 1993: no.  
 3895.

**2983. English transl., 1750:** The | Mirror | Of | Stones: |  
 In Which | The Nature, Generation, Properties, | Virtues  
 and various Species of more | than 200 different Jewels,  
 precious and | rare Stones, are distinctly described. | Also  
 certain and infalliable Rules to know the | Good from the  
 Bad, how to prove their | Genuineness, and to distinguish  
 the Real | from Counterfeits. | Extracted from the Works  
 of Aristotle, | Pliny, Isidorus, Dionysius Alexandrinus, |  
 Albertus Magnus, &c. | By Camillus Leonardus, M.D. | A  
 Treatise of infinite Use, not only to Jewellers, | Lapidaries,  
 and Merchants who trade in them, | but to the Nobility  
 and Gentry, who purchase | the either for Curiosity, Use or  
 Ornament. | Dedicated by the Author to Cæsar Borgia.  
 | Now first Translated into English. | [rule] | London: |  
 Printed for J. Freeman in Fleet-street, 1750.

8<sup>o</sup>: A-K<sup>8</sup>; 120ℓ.; [i]-xiv, 15-240. PAGE SIZE: 172 x  
 113 mm.

CONTENTS: [i-ii], Title page, verso blank; [iii]-vi,  
 Dedication to Cæsar Borgia; vii-xiv, "The Translator's  
 Preface"; 15-16, "The Proemium"; 16-20, "The First  
 Book. Chap. I. Of the Matter of Mixts, but Principally of  
 Stones."; 21-24, "Chap. II. Of the Effective or Generative  
 Cause of Stones."; 24-25, "Chap. III. Of the substantial  
 Form of Stones."; 26-30, "Chap. IV. Of the Place of the  
 Generation of Stones."; 31-34, "Chap. V. Of the Accidents  
 of Stones, and first of their bad or good Composition."; 35-  
 39, "Chap. VI. Of the Perspicuity and Opacity of Stones,  
 and their Colour."; 39-41, "Chap. VII. Of the Hardness or  
 Softness of Stones."; 41-43, "Chap. VIII. Of the Gravity  
 and Lightness, Density and Porosity of Stones."; 43-  
 46, "Chap. IX. How to know whether are natural or  
 artificial."; 47-48, "Book II. Chap. I. The Proem."; 48-53,  
 "Chap. II. Whether there be Virtues in Stones, with the  
 various Opinions concerning the same."; 54-56, "Chap. III.  
 How, and from whence Stones have their Virtues."; 56-  
 59, "Chap. IV. Of yhe true Opinion of the Virtue of  
 Stones."; 60-61, "Chap. V. The Names of all those Learned  
 Men, whose Works have furnish'd us with the Materials of  
 the following Treatise."; 61-240, "Chap. VI. Of Particular  
 Stones, in an Alphabetical Order."

VERY RARE. Translated from *Speculum Lapidum*  
 (Venetiis, 1502) but omitting the section on engraved  
 gemstones.

**Facsimile reprint, 1983:** Printed by Nirvana Press,  
 England for Metatron Publications, 1983. 8<sup>o</sup>: [i]-xiv, 15-  
 240. Reprint of the first English edition published in 1750.  
 "This facsimile reproduction is limited to two hundred  
 copies, bound in simulated leather."

REFERENCES: BL: [953.a.10.]. • LKG: III 13a. • NUC:  
 327, 154 [NL 0264472]. • Sinkankas, *Gemology Bibliography*,  
 1993: no. 3896.

Libri Tre Di M. Lodovico Dolce; Ne I Qvali Si Tratta delle  
 diuerse sorte delle Gemme, che produce la Natura, Della  
 Qvalita, grandezza, bellzza, & virtù loro. (Venetia, 1565).

See: Dolce, Lodovico.

## LEONARDUS, Camillus.

See: Leonardi, Camillo.

**LEONHARD, Gustav von.** (BORN: Munich, Bavaria,  
 Germany, 22 November 1816; DIED: Heidelberg,  
 Germany, 27 November 1878) *German mineralogist,*  
*petrographer & stratigrapher.*

Born the son of KARL CAESAR VON LEONHARD, Gustav  
 graduated from the University of Heidelberg. He taught at  
 Heidelberg from 1853.

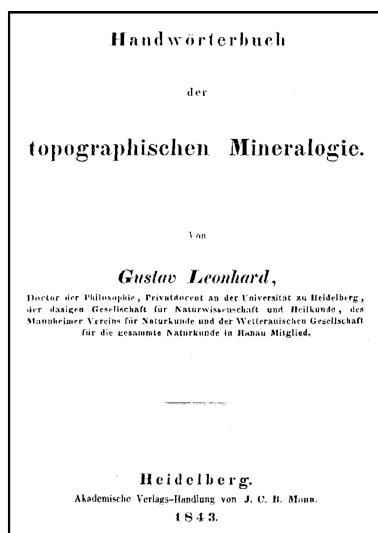
REFERENCES: ADB: 18, 307. • *American Journal of  
 Science*: 3rd Series, 117 (1879), 342. • Barr, *Index to  
 Biographical Fragments*, 1973: 153. • DBA: I 755, 48; II 803,  
 378-379. • Lambrecht & Quenstedt, *Catalogus*, 1938: 259.  
 • *Neues Jahrbuch für Mineralogie, Geologie und Paläontologie*:  
 Jg. 1879, 224c-224d. • Poggendorff: 1, col. 1427 & 3, 796-7.  
 • Sarjeant, *Geologists*, 1980: 3, 1553. • WBI. • *World Who's  
 Who in Science*: 1026.

## 2984. — German, 1843.

Handwörterbuch | der | topographischen  
 Mineralogie. | Von | Gustav Leonhard, | [...4 lines of  
 titles and memberships...] | [double rule] | Heidelberg.  
 | Akademische Verlags-Handlung von J.C.B. Mohr.  
 | 1843.

8<sup>o</sup>: [i]-xii, [1]-593, [3] p.

CONTENTS: [i-ii], Half title page, verso blank; [iii-iv],  
 Title page, verso blank; [v], Dedication.; [vi], Blank.; [vii]-  
 xii, "Vorrede."—dated June 1843.; [1]-541, Text.; [542]-  
 546, "Zusätze, Nachträge, und Berichtigungen."; [547]-593,  
 "Inhalts-Übersicht | Nach | alphabetisch-geographischer  
 Ordnung."; [1 pg], Blank.; [2 pgs], "Verbesserungen."



HANDWÖRTERBUCH, 1843

VERY SCARCE. An early dictionary of topographical mineralogy, in which the text lists in alphabetical order the names of the species, with geographical distribution underneath. At the end, an index reverses this position, and lists localities, with the known species underneath. This was one of the first works to attempt a comprehensive worldwide analysis of mineral distribution.

REFERENCES: Dana's 7th (Bibliography): 76. • NUC: 327, 215-6 [NL 0266654].

**2985. — German, 1852** [First edition].

Die | Mineralien Badens | Nach | Ihrem Vorkommen | von | G. Leonhard, | [...7 lines of titles and memberships...] | [ornate rule] | Stuttgart. | E. Schweizerbart'sche Verlagshandlung Und Druckerei. | 1852.

8°:  $\pi^2$  1-38  $\chi^5$ ; 32 $\ell$ .; [4], [1]-55, [5] p. PAGE SIZE: 152 x 44 mm.

CONTENTS: [2 pgs], Title page, verso blank.; [1 pg], "Vorwort."—signed G. Leonhard.; [1 pg], Blank.; [1]-45, Text.; [46]-55, Glossary.; [1 pg], Blank.; [4 pgs], Advertisements.

VERY SCARCE. A popular topographical mineralogy describing the species found in the area of Baden in Lower Austria. There are famous warm mineral springs in the area that had been used since Roman times.

**Beiträge, 1854:** *Beiträge zur mineralogischen und geognostischen Kenntniß des Grossherzogthums Baden.* Stuttgart, Schweizerbart'sche Verlagshandlung, 1854. 3 parts. 8°: 121 p., 2 plates.; 112 p., 3 folding plates.; 136 p., 2 plates.

Rare. These are supplements published to expand the knowledge of the mineralogy and geology of the state of Baden in Austria.

REFERENCES: NUC: [no copy listed].

**2986. 3rd edition, 1876:** *Die Mineralien Badens nach ihrem Vorkommen.* 3te vermehrte Auflage. Stuttgart, Schweizerbart, 1876.

8°: 65 p. SCARCE.

REFERENCES: NUC: 327, 215-6 [NL 0266657]. •

Spencer, *Catalogue of Topographical Mineralogies*, 1948: [p. 307].

**2987. — German, 1851-2** [First edition].

Grundzüge der Mineralogie, Geognosie, Geologie und Bergbaukunde. Nach David T. Ansted, Dana, Murchison, Beudant u.a.m., Frei Bearbeitet mit besonderer Rücksicht auf Gewerbe, Künste und praktisches Leben, von Dr. Gustav Leonhard. Stuttgart, J.B. Müller's Verlagshandlung, 1851-1852.

3 vols. 8°: [4], 176 p.; [4], 172 p.; [6], 138 p.

RARE. *Contents:* [1] Grundzüge der Mineralogie für Schule und Haus – [2] Grundzüge der Geognosie und Geologie für Schule und Haus – [3] Grundzüge der Bergbaukunde für Schule und Haus.

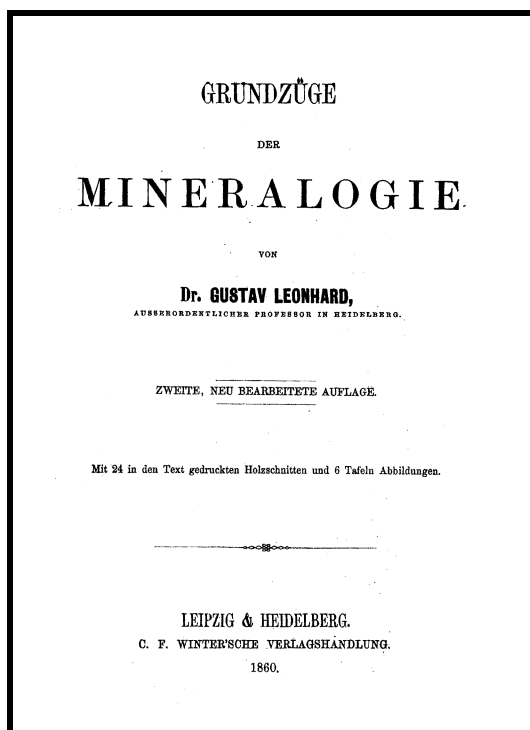
Other Authors: Ansted, D. T. (David Thomas), 1814-1880. Dana, Edward Salisbury, 1849-1935.

REFERENCES: NUC: 327, 215-6 [NL 0266653].

**2988. 2nd edition, 1853:** Grundzüge | Der | Mineralogie | für | Schule und Haus. | Von | Dr. Gustav Leonhard, | Privatdocenten an t. Universität Heidelberg. | [rule] | Zweite revidierte Ausgabe | mit 42 Holzschnitten. | [ornament] | Stuttgart, | Verlag von J.B. Müller. | 1853.

8°. VERY SCARCE.

REFERENCES: NUC: 327, 215-6 [NL 0266653].



GRUNDZÜGE DER MINERALOGIE, 1860

**2989. 2nd edition, 1860:** Grundzüge | Der | Mineralogie | Von | Dr. Gustav Leonhard, | Ausserordentlicher Professor In Heidelberg. | [rule] | Zweite, Neu Bearbeitete Auflage. | [rule] | Mit 24 in den Text gedruckten Holzschnitten und 6

Tafeln Abbildungen. | [ornate rule] | Leipzig & Heidelberg.  
| C.F. Winter'sche Verlagshandlung. | 1860.

8°: π4 1-268; 212*l.*; [i]-viii, [1]-404, [12] p., index, 24  
woodcut illus., 6 plates. PAGE SIZE: 218 x 138 mm.

CONTENTS: [i-ii], Title page, verso blank; [iii],  
"Vorwort"; [iv], Blank; [v]-viii, "Inhalts-Uebersicht"; [1],  
"Einleitung"; [2]-92, "Allgemeiner oder vorbereitender  
Theil"; [93]-389, "Besonderer oder beschreibender Theil";  
[390], "Verbesserungen"; [391]-404, "Register"; [2 pgs],  
"Tafel I."; [2 pgs], "Tafel II."; [2 pgs], "Tafel III."; [2 pgs],  
"Tafel IV."; [2 pgs], "Tafeln V."; [2 pgs], "Tafeln VI."; [At  
end], 6 plates.

SCARCE. The superb notes and references make  
this work more than a standard mineralogical text. The  
author had a good knowledge of the science, as is  
shown by the many instances where a complete synoptic  
history of the subject being described is added in a  
note. The work is divided into two portions. The  
first treats crystallography, physical properties, specific  
weight, optical characters, magnetism, electrical qualities,  
phosphorescence, and concludes with a discussion of the  
chemical properties and the theoretical framework and  
nomenclature for the proposed mineral classification. The  
second portion arranges the species into the system.

REFERENCES: Dana's 7th (Bibliography): 76. • NUC:  
327, 215-6 [NL 0266652].

2990. 2nd edition, 1862: *Katechismus der Mineralogie*. Von  
Dr. Gustav Leonhard ... Leipzig, Verlagsbuchhandlung von  
J.J. Weber, 1862.

8°: [8], 110 p., 131 illus. VERY SCARCE.

REFERENCES: NUC: 327, 215-6 [NL 0266656].

2991. 3rd edition, 1878: *Katechismus | der | Mineralogie*. |  
Von | Dr. Gustav Leonhard, | a.o. Professor in Heidelberg.  
| [rule] | Dritte, vermehrte und verbesserte Auflage. | [rule]  
| Mit 150 in den Text gedruckten Abbildungen. | [ornate  
rule] | Leipzig | Verlagsbuchhandlung von J.J. Weber |  
1878.

8°: viii, 123 p., illus. SCARCE.

REFERENCES: NUC: 327, 215-6 [NL 0266656].

Die Einschlüsse von Mineralien in krystallisirten Mineralien  
... (Haarlem, 1854).

See: Blum, Johann Reinhard.

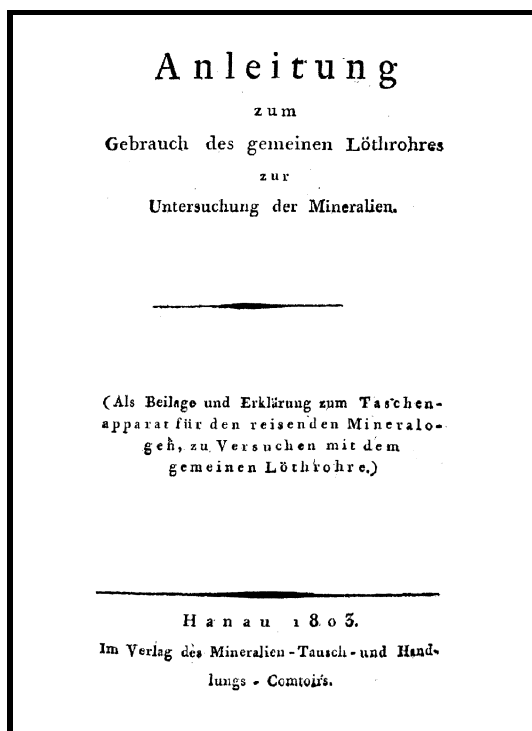


KARL CÄSAR VON LEONHARD

LEONHARD, Karl Cäsar von. (BORN: Rumpenheim  
near Hanau, Germany, 12 September 1779; DIED:  
Heidelberg, Germany, 23 January 1862) *German  
mineralogist & geologist*.

Leonhard was the father of GUSTAV VON LEONHARD.  
He was a professor of mineralogy and geognosy at the  
University of Heidelberg from 1818 onwards. Earlier,  
he was land assessor in Hanau. He was the founder  
and publisher of one of the first mineralogical magazines,  
*Taschenbuch für die gesammte Mineralogie*, which is the  
ancestor of today's *Jahrbuch [Neues] für Mineralogie,  
Geologie, und Palaeontologie*. Leonhard built a personal  
mineral collection of over 8,000 specimens from the Harz,  
Switzerland, Poland, Vesuvius, Eifel, France, Iceland and  
elsewhere. This collection was acquired by the University  
of Göttingen after his death.

REFERENCES: ADB: 18, 308. • *American Journal of  
Science*: 2nd Series, 83 (1862), 453 & 86 (1863), 278. •  
Barr, *Index to Biographical Fragments*, 1973: 153. • DBA:  
I 755, 91-105; II 803, 393-399. • Drugulin, *Sechstausend  
Portraits*, 1863: nos. 3258-60. • DSB: 8, 245-6 [by J.G.  
Burke]. • Hamberger & Meusel, *Gelehrte Teutschland*, 1796-  
1834. • Lambrecht & Quenstedt, *Catalogus*, 1938: 259. •  
Poggendorff: 1, cols. 1427 & 1581. • Sarjeant, *Geologists*,  
1980: 3, 1553-4 & Suppl. 2 (1996), 1, 839. • Schenkenberg,  
*Die lebenden Mineralogen*, 1842. • WBI. • Wilson, *History  
of Mineral Collecting*, 1994: 180.



ANLEITUNG, 1803

2992. — German, 1803.

Anleitung | zum | Gebrauch des gemeinen  
Löthrohres | zur | Untersuchung der Mineralien.  
| [tapered rule] | (Als Beilage und Erklärung zum  
Taschen- | apparat für den reisenden Mineralo- |

## LEONHARD

gen, zu Versuchen mit dem | gemeinen Löthrohre.)  
| [tapered rule] | Hanau 1803. | Im Verlag des  
Mineralien – Tausch- und Hand- | lungs –  
Comtoir's.

8°: [1]-19, [1] p. PAGE SIZE: 156 x 98 mm.

CONTENTS: [1-2], Title page, verso blank.; [3-4],  
"Vorrede."; [5]-19, Text.; [1 pg], "gedruckt, bei Joh. Gerh.  
Scharneck."

RARE. Written when Leonhard was 24 years  
old, this small work concerns the blow-pipe and its  
application in mineralogy. It appears to be the author's  
first separate publication.

REFERENCES: Burchard, *History of Blowpipe Analysis*,  
1984: [listed in bibliography]. • LKG: XI 27. • NUC: [no  
copy listed].

### 2993. — German, 1812.

Die Form-Verhältnisse und Gruppierungen der  
Gebirge ... Als erklärende Beilage zu den  
plastischen Darstellungen der Gebirge. Von Carl  
Caesar Leonhard und P.E. Jassoy. Frankfurt am  
Main, In der J.C. Hermannschen Buchhandlung,  
1812.

8°: 30, [2] p. Co-authored with Peter Eduard  
Jassoy [see note below]. RARE.

**Peter Eduard Jassoy.** (BORN: Hanau, Germany, 1791;  
DIED: ?) *German mining engineer.* Jassoy was in charge of  
mining operations in Bieber.

REFERENCES: BL: [972.g.35.(1.)]. • LKG: XIII 255.  
(Jassoy) LKG: p. 292.

**2994. Swedish transl., 1833:** K.C. von Leonhard's | Handbok  
| i | Geologien och Geognosien. | öfversatt från andra  
tyska upplagan | af | L. F. Swanberg. | [ornate rule] |  
[double rule] | Stockholm. hos L.J. Hjerta. | 1833.

8°:  $\pi^8$  1-24<sup>8</sup> 25-28<sup>4</sup> 29<sup>2</sup>; 218 $\ell$ .; [i]-[xvi], [1]-420 p., 6  
plates (3 colored).

CONTENTS: [i-ii], Half title page, "Bihang till  
Jernkontorets annaler för år 1832," verso Swedish forward  
signed "Fahlun d. 26 Maj 1833. Redact. af Annalerna."; [iii-iv],  
Title page, verso blank.; [v]-xiii, Contents.; [xiv],  
Blank.; [xv], Errata.; [xvi], Blank.; [1]-394, Text.; 395-420,  
Index.

VERY SCARCE. Translation of Leonhard's *Grundzüge  
der Oryktognosie* (2d ed, 1833). The book was presented  
as an appendix to "Jernkontorets annaler." This was  
the third translation of a foreign geologic opus edited by  
Jernkontoret, published with the intent to guide young  
people into the field of geology. The book was translated  
by L. F. Swanberg. [Entry by Johan Kjellman]

REFERENCES: NUC. • SWIM.

### 2995. — German, 1805-9.

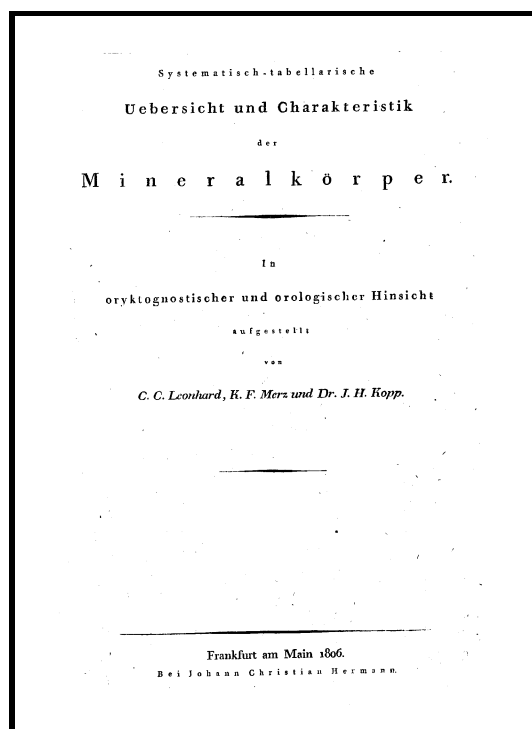
Handbuch | einer allgemeinen | topographischen  
Mineralogie. | [tapered rule] | Von | Carl Caesar  
Leonhard, | [...3 lines of titles and memberships...] |  
[rule] | [...3 lines of quotation, signed Seneca...] | [rule]  
| Erster [-Dritter] Band. | [tapered rule] | Frankfurt  
am Main 1805. | Bei Johann Christian Hermann.

3 vols. [VOL 1: 1805] 8°: [4], iv, 479, [1], 8 p.;  
[VOL 2: 1807] 8°: [6], 568, [8] p.; [VOL 3: 1809] 8°: [6],  
432 p.

VERY SCARCE. This compendious work lists the  
localities for over 500 rocks and minerals. The order  
is alphabetical by mineral name and after every one

an article follows listing the lands, provinces, places  
and mines in alphabetical rows. The first volume  
contains minerals A through I and the second continues  
through Z. The third volume includes supplements  
and corrections to the first two volumes, a geographic  
register, and an alphabetical overview of German,  
French, English, Italian and Hungarian mineralogical  
nomenclature.

REFERENCES: *Freilich Sale Catalog*: no. 348. • Leonard's  
*Taschenbuch*: 2 (1808), 333 & 5 (1810), 335. • LKG: XIV 1.  
• NUC: 327, 218-20 [NL 0266725].



SYSTEMATISCH-TABELLARISCHE UEBERSICHT, 1806

### 2996. — German, 1806 [Part 1].

Systematisch-tabellarische | Uebersicht und  
Charakteristik | der | Mineralkörper. | [tapered  
rule] | In | oryktognostischer und orologischer  
Hinsicht | aufgestellt | von | C.C. Leonhard,  
K.F. Merz, und Dr. J.H. Kopp. | [tapered rule]  
| [tapered rule] | Frankfurt am Main 1806. | Bei  
Johann Chrisitan Hermann.

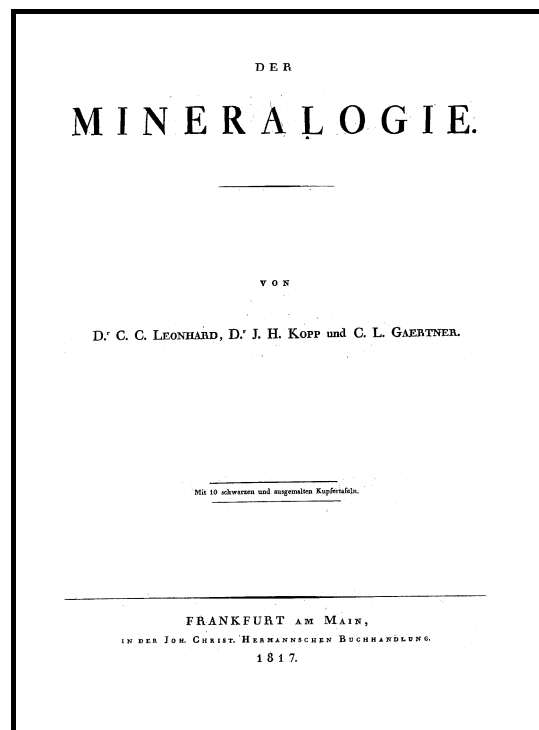
2°:  $\pi^3$  A-Z<sup>2</sup> Aa-ZZ<sup>2</sup> Aaa-Fff<sup>2</sup> Ggg<sup>1</sup> \*-\*\*\*\*\*; ?? $\ell$ .;  
[7] p., 84 $\ell$ .; [84]-125, I-XVI p. Tables 1-83 are numbered  
in duplicate. PAGE SIZE: 410 x 260 mm.

CONTENTS: [2 pgs], Title page, verso blank.;  
[2 pgs], Preface.; [1 pg], Dedication to Johann Friedrich  
Blumenbach.; [1 pg], Blank.; [1 pg], "Oryktognostischer  
Theil." (=recto of table 1, leaf 1).; 84 $\ell$ . of tables, numbered  
on facing leaves 1-83.; [84], "Orologischer Theil."; 85-  
125, Text (= "Gebirgsarten."); I-XII, "Anmerkungen Und  
Zusätze."; XIII-XVI, "Register."

RARE. Co-authored with Ernst Karl Friedrich Merz [see note below] and JOHANN HEINRICH KOPP. This volume consists of a systematic survey of various mineralogical properties in the form of a series of tables. The lengthy descriptions give ample reference to external characters and the chemical qualities. In many instances throughout the text of this volume, the authors have also included remarks that reflect the inadequacies of science they had personally experienced; they fully understood the limitation of mineralogical science in their own time and attempt to convey this information to the reader. Leonard wrote the oryctognosy section, Merz the oryctology, and Kopp the chemical sections.

**Ernst Karl Friedrich Merz.** (BORN: Hanau, Germany, 28 February 1776; DIED: Bruchköbel, Germany, 19 November 1813) *German clergyman & naturalist.* Merz was a priest first in Hanau, then at Bruchköbel near Hanau.

REFERENCES: Dana's 7th (Bibliography): 76. • *Freilich Sale Catalog*: no. 349. • Leonard's *Taschenbuch*: 1 (1807), 333-4. • LKG: XII 171. • NUC: 327, 218-20 [NL 0266739]. • Ward & Carozzi, *Geology Emerging*, 1984: no. 1371. (Merz) DBA: I 831, 28-30. • Hamberger & Meusel, *Gelehrte Deutschland*, 1796-1834. • Jöcher, *Gelehrten-Lexikon, Supplement*. • Poggendorff: 2, col. 126-7. • WBI.



PROPAEDEUTIK DER MINERALOGIE, 1817

**2997. — German, 1817** [Part 2].

Propaedeutik | der | Mineralogie. | [tapered rule] | Von D.<sup>r</sup> C.C. Leonhard, D.<sup>r</sup> J.H. Kopp und C.L. Gaertner. | [rule] | Mit 10 schwarzen und ausgefalteten Kupfertafeln. | [rule] | [tapered

rule] | Frankfurt am Main, | in der Joh. Christ. Hermannschen Buchhandlung. | 1817.

[SERIES TITLE PAGE:]

Einleitung Und Vorbereitung | zur | Mineralogie. | [tapered rule] | Als Erster Theil | der | Systematisch – Tabellarischen Uebersicht Und Charakteristik Der | Mineralkörper. | [tapered rule] | Von | D.<sup>r</sup> C.C. Leonhard, D.<sup>r</sup> J.H. Kopp und C.L. Gaertner. | [rule] | Mit 10 schwarzen und ausgefalteten Kupfertafeln. | [rule] | [tapered rule] | Frankfurt am Main, | in der Joh. Christ. Hermannschen Buchhandlung. | 1817.

2°;  $\pi^4$ ) (3 A-Z<sup>2</sup> 2A-2Z<sup>2</sup> 3A-3Z<sup>2</sup> 4A-4K<sup>2</sup>; 165ℓ.; [2], [i]-xii, [1]-315, [1] p., 10 engraved plates (3 hand-colored; numbered I-X). PAGE SIZE: 405 x 256 mm.

CONTENTS: [1 pg], Blank.; [1 pg], Series title page.; [i-ii], Title page, verso blank.; [iii], Dedication to Alexander von Humboldt.; [iv], Blank.; [v]-[vi], Untitled preface—dated July 1816.; vii-xii, "Inhalt."; [1], Section title page, "Einleitung und Vorbereitung | zur | Mineralogie."; [2], Blank.; 3-4, "Einleitung."; 5-140, "Vorbereitender Theil der Oryctognosie."; 141-196, "Vorbereitender Theil der Geognosie."; 197-220, "Petrefaktenkunde."; 221-228, "Mineralien-Sammeln."; 229, "Epochen in der Geschichte der Mineralogie."; 229-277, "Literatur der Mineralogie."; 278-309, "Alphabetische Uebersicht der Autoren, Uebersetzer | und Herausgeber in der Literatur der Mineralogie, | sowie der andern mit den angeführten Schriften in | Beziehung stehenden Gelehrten."; 310, "Berichtigungen und Zusätze."; 311-315, "Erklärung der Kupfertafeln."; [1 pg], Blank.; [At end], 10 folding plates (3 hand-colored; numbered I-X).

PLATES: All ten are from copper engravings, and illustrate various concepts discussed within the text. The first is not numbered, but all the others have their "Tafel" number in the upper right hand corner.

[Tafel I.] Hand-colored coding blocks for the external characteristic of color. Not signed. Tafel II. 24 figures (some hand-colored) showing Haüy's dissected crystals and various other crystal drawings and diagrams. Not signed. Tafel III. 8 hand-colored scenes showing various geological cross-sections. Signed: Jassoy. Tafel IV. 10 hand-colored scenes showing various geological cross-sections. Signed: Jassoy w: Pusch. Tafel V-X. Show figures of various fossils, numbered 1-339. All plates are signed: Westermäyr del.; C. Felsing sc. Darmst.

RARE. Co-authored with JOHANN HEINRICH KOPP and Carl Ludwig Gaertner [see note below], this remarkable mineralogy was the product of two years cooperation between the authors. It was intentionally written as an introductory volume to Leonard, Merz and Kopp's earlier, *Systematisch-Tabellarische Uebersicht und Charakteristik der Mineralkörper* (Frankfurt am Main, 1806) [see previous entry].

After the short introduction which covers general information and definitions, the *Propaedeutik* is divided into seven major sections. The first of these concerns mineralogy in general, and covers outer characteristics like color, crystal form, cleavage, and taste, inner characteristics like hardness, phosphorescence, magnetism, and electricity as well as classification schemes and nomenclature. Section two gives a distinctly Wernerian view of geognosie and how the earth is geologically ordered, ore deposits, a theory of the planet's structure,



## LEONHARD

and geological nomenclature. The third section concerns fossils. Section four is a highly interesting account authored by Leonhard on the collecting of minerals. Details include instructions for the numbering and labeling of specimens as well as the importance of cataloging ones collection. Section five briefly lists the epochs thus scene in the history of mineralogy, with Werner [q.v.] being given the most prominent typeface, followed next by Häüy, Agricola, etc. The sixth section is an important and extensive bibliography covering mineralogy, geognosie, and paleontology. Compiled before the availability of other major bibliographic works, this mineralogical bibliography listing 2740 items is a remarkably complete list of books available to the mineralogist of the period. This classified bibliography was prepared by Gaertner, and it is divided into seventeen general categories including literature & history, ancient mineralogy, periodicals, nomenclature, dictionaries, textbooks, systematic, topographical works, chemical, geology, and paleontology. Concluding the work is the seventh section, which gives an alphabetical list of all the authors mentioned in the bibliography together with short biographical notes. In some instances, this is today still the only biographical information available about the authors. A very scarce book, probably due to a high cost in production.

**Johann Heinrich Kopp.** (BORN: Hanau, Germany, 17 September 1777; DIED: Hanau, Germany, 28 November 1858) *German physician & chemist.* Kopp held an advanced degree in chemistry and was appointed professor extraordinary in 1843 and professor ordinary in 1853 in physics and chemistry at the University of Giessen.

**Karl Ludwig Gaertner.** (BORN: Hanau, Germany, 7 January 1785; DIED: Hanau, Germany, 3 October 1829) *German apothecary.* Gaertner opened a pharmacy in Hanau and became director of the Wetterau Society for the collecting of natural objects in that city.

REFERENCES: NUC: 327, 218-20 [NL 0266738]. • Petzholdt, *Bibliotheca Bibliographica*, 1866: p. 567. (Kopp) ADB. • DBA: I 693, 210-223; II 744, 128-132. • Hamberger & Meusel, *Gelehrte Teutschland*, 1796-1834. • Hirsch, *Biographisches Lexikon*, 1884-8. • Lambrecht & Quenstedt, *Catalogus*, 1938: 242. • Poggendorff: 1, cols. 1303-4. • Schaedler, *Biographisch Handwörterbuch*, 1891: 61-2. • WBI. (Gaertner) *Deutsche Apotheker Biographie*: 1, 189-200 [by W.-H. Hein]. • Poggendorff: 1, col. 828. • Siebert, K., "Hanauer Biographien aus drei Jahrhunderten," *Hanauer Geschichtsblätter*, 3/4 (1919), 60-??: 60-2. • Strieder, *Grundlage zu einer Hessischen Gelehrten-, Schriftsteller- und Künstler-Geschichte*, 18??-31, 19 vols.: 19 (1831), 112-6 [by K.W. Justi; with bibliography of 33 titles].

Taschenbuch für die gesammte Mineralogie, mit Hinsicht auf die neuesten Entdeckungen, herausgegeben von Carl Caesar Leonhard ... (Frankfurt am Main, 1807-29). 28 volumes.

See: *Taschenbuch Für Die Gesamnte Mineralogie.*

Jahrbuch für Mineralogie, Geognosie, Geologie und Petrefaktenkunde. Herausgegeben von Karl Cäsar von Leonhard und H.G. Bonn. (Stuttgart, 1830-2). 3 volumes.

See: *Taschenbuch Für Die Gesamnte Mineralogie.*

Neues Jahrbuch für Mineralogie, Geognosie, Geologie und Petrefaktenkunde. Herausgegeben von Karl Cäsar von Leonhard und H.G. Bonn. (Stuttgart, 1833-62). 33 volumes.

See: *Taschenbuch Für Die Gesamnte Mineralogie.*

**2998. — German, 1811** [Bibliography].

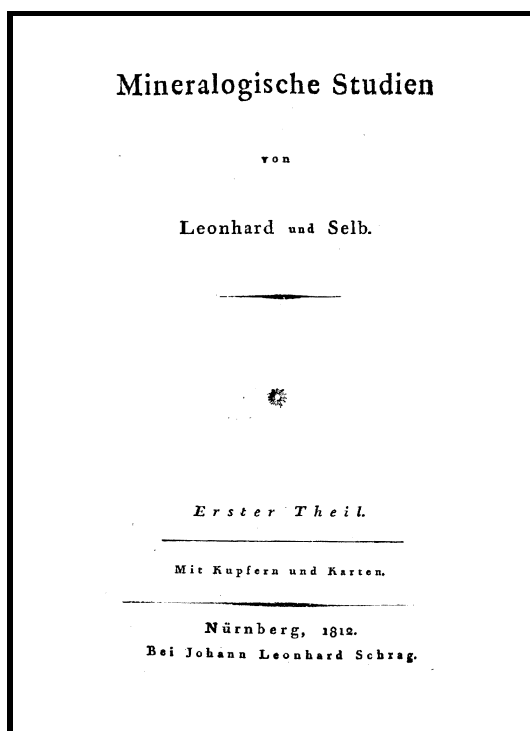
Allgemeines Repertorium der Mineralogie. Erstes Quinquennium 1806-1811 [-Zweite Quinquennium 1812-1816; -Dritte Quinquennium 1817-1821]. Frankfurt am Main, 1811-1822.

3 vols. [VOL 1: 1811] 8°: [10], 212 p. [VOL 2: 1817] 8°: 160 p. [VOL 3: 1822] 8°: 172 p.

RARE. These three volumes catalog the subjects and the names of authors who published on mineralogy between 1806 and 1821. It is divided into sections of Oryktognosie, Chemische Mineralogie, Geologie und Geognosie, Versteinerungskunde, Mineralogische Ort- und Länderbeschreibung, Mineraliensammlungen, Reisen, Schiftsteller.

This is a continuation of *Taschenbuch für die gesamte Mineralogie. Repertorium.*

REFERENCES: Besterman, *Bibliography of Bibliographies*, 1965-6: col. ?? . • BL: [(A) OD 06 -G(1)] . • LKG: I 25. • Margerie, *Bibliographies Géologiques*, 1896: no. 58. • NUC: 327, 218-20 [NL 0266706].



MINERALOGISCHE STUDIEN, 1812

**2999. — German, 1812.**

Mineralogische Studien | von | Leonhard und Selb. | [tapered rule] | [ornament] | Erster Theil. | [rule] | Mit Kupfern und Karten. | [tapered rule] | Nürnberg, 1812. | Bei Johann Leonhard Schrag.

8°. π<sup>6</sup> A-T<sup>8</sup> U<sup>2</sup>; 160l.; [i]-ix, [3], [1]-306, [2] p., frontispiece, 3 plates (2 hand colored, one of which is also folding). PAGE SIZE: 198 x 118 mm.

CONTENTS: [i-ii], Title page, verso blank.; [iii], Dedication.; [iv], Blank.; [v]-vi, Dedication, signed

February 1812.; [vii]-ix, "Inhalt.;" [1 pg], "Nachricht für den Buchbinder.;" [1 pg], "Mineralogische Studien.;" [1 pg], Blank.; [1]-306, Text.; [2 pgs], "Druckfehler und Berichtigungen.;"

PLATES: The frontispiece is titled "Oberstein" and shows a landscape vista. Page 150, colored, "Das Thal der Nahe von Kreuznach bis Oberstien" [=map]. Page 167, "Der gefallene Felsen.;" Page 190, colored folding, "Der Canton Graubündten."

RARE. No more published. Co-authored with C.J. Selb [see note below]. The text concentrates of several topographical subjects.

C.J. Selb. (BORN: 1755; DIED: Villingen, Germany, 6 November 1827) *German mining expert*. Selb was director of the Salt works at Dürheim in Baden, Germany. Earlier he was the chief mine engineer at Wolfach in Kinzigthal.

REFERENCES: LKG: VI 124. • NUC: 327, 218-20 [NL 0266732]. (Selb) DBA: I 1174, 49-50. • Hamberger & Meusel, *Gelehrte Deutschland*, 1796-1834. • *Neuer Nekrolog der Deutschen*. • Poggendorff: 2, col. 899. • WBI.

### 3000. — German, 1816.

Beudeutung und Stand | der | Mineralogie. | [tapered rule] Eine Abhandlung | in der | zur Feier des Allerhöchsten Namenfestes | Seiner Majestät des Königs | am 12. Oktober 1816 | gehaltenen öffentlichen Versammlung | der | Akademie der Wissenschaften zu München | vorgelesen | von | Karl Cäsar von Leonhard. | [tapered rule] Frankfurt am Main, 1816. | In der Joh. Christ. Hermannschen Buchhandlung.

4°:  $\pi^1$  [1]-14<sup>4</sup>; 57 $\ell$ .; [2], [1]-111, [1] p. PAGE SIZE: 268 x 214 mm.

CONTENTS: [2 pages], Half title page, "Bedeutung und Stand der Mineralogie," verso blank.; [1-2], Title page, verso blank.; [3]-111, Text.; [1 page], Colophon, "Gedruckt zu München mit Hübschmann'schen Schriften."

VERY SCARCE. Reviews the current state of mineralogy and crystallography. The work covers all aspects of classification and physical and chemical properties, describing the current position, and what that knowledge means to science.

REFERENCES: NUC: 327, 218-20 [NL 0266709].

### 3001. — German, 1821 [First edition].

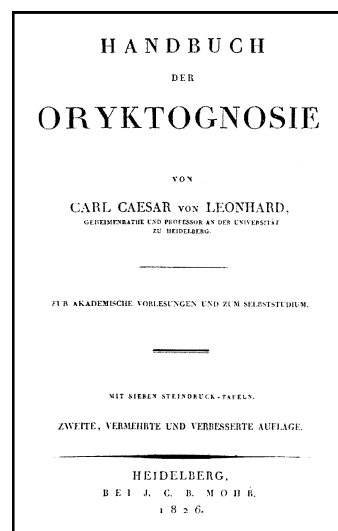
Handbuch | Der | Oryktognosie | Von | Karl Caesar von Leonhard, | Geheimenrathe Und Professor An Der Universität | Zu Heidelberg. | [rule] Für Akademische Vorlesungen Und Zum Selbststudium. | [double rule] Mit Sieben Steindruck-Tafeln. | [tapered rule] Heidelberg, | Bei Mohr Und Winter. | 1821.

8°: xxx, [2], 720 p., 7 folding plates.

VERY SCARCE. A detailed work on mineralogy, including mathematical and chemical analyses of various gems and stones.

REFERENCES: Dana's 7th (Bibliography): 76. • *Freilich Sale Catalog*: no. 350. • NUC: 327, 218-20 [NL 0266723]. • Ward & Carozzi, *Geology Emerging*, 1984: no. 1373.

3002. 2nd edition, 1826: Handbuch | Der | Oryktognosie | Von | Carl Caesar von Leonhard, | Geheimenrathe Und Professor An Der Universität | Zu Heidelberg. | [rule] Für Akademische Vorlesungen Und Zum Selbststudium. |



HANDBUCH, 1826

[double rule] Mit Sieben Steindruck-Tafeln. | Zweite, Vermehrte Und Verbesserte Auflage. | [tapered rule] Heidelberg, | Bei J.C.B. Mohr. | 1826.

8°: [i]-xxxvii, [1] errata, [1]-852 p., frontispiece (portrait), 7 plates.

CONTENTS: [i-ii], Half title page, verso blank.; [iii-iv], Title page, verso blank.; [v], Dedication.; [vi], Blank.; vii-xiv, "Vorrede | zur ersten Auflage."—dated August 1821.; xv-xxii, "Vorrede | zur zweiten Auflage."—dated 24 August 1826.; xxiii-xxxvii, "Inhalt.;" [1 pg], "Berichtigungen und Druckfehler.;" [1], Sectional title page, "Oryktognosie.;" [2], Blank.; [3]-8, "Einleitung.;" 9-106, Text.; 107-809, Text of descriptive mineralogy.; [810]-852, "Register.;" [At end], 7 plates.

VERY SCARCE. An amazing, well referenced, and substantial textbook of mineralogical science, treating in the introductory section all aspects of crystallography, physical and chemical properties, nomenclature, and theory of classification. This is followed by the descriptive mineralogy that is comprehensive and lengthy. Interestingly, the descriptions of most of the various species include tables of the various chemical analysis which are some of the earliest examples of comparative mineral chemistry published. Another feature is that with each species full references are given to the previous literature of the mineral. A classified bibliography of mineralogical literature is given on pages 103-106.

REFERENCES: Dana's 7th (Bibliography): 76. • NUC: 327, 218-20 [NL 0266724].

### 3003. — German, 1823-5.

Charakteristik der Felsarten. Von Karl Caesar von Leonhard ... Für akademische Vorlesungen und zum Selbststudium ... Heidelberg, J. Engelmann, 1823-5.

3 parts in one volume. 8°: lxxx, 772 p.

VERY SCARCE. Petrological examination of the feldspars. Contents of the volumes: 1. Ungleichartige Gesteine; 2. Gleichartige und scheinbar Gleichartige Gesteine; 3. Trümmergesteine. Lose gesteine Kohlen.

REFERENCES: NUC: 327, 218-20 [NL 0266712].

### 3004. — German, 1825 [First edition].

Naturgeschichte des Mineralreiches ... Heidelberg,

# LESSER

1825.

8°: xiv, [2], 360 p., 2 plates. VERY SCARCE.

REFERENCES: NUC: **327**, 218-20 [NL 0266733].

**3005. 2nd edition, 1831-3:** Naturgeschichte des Mineralreichs. Lehrbuch für öffentliche vorträge, besonders auch in gymnasien und realschulen, so wie zum selbststudium. Von Karl Cäsar ritter von Leonhard ... Zweite, sehr vermehrt und verbessert Auflage. Heidelberg: Joseph Engelmann, 1831-3.

2 parts in one volume. 8°: ??, 15 plates (2 hand-colored and 1 folding). 1. Abth. Grundzüge der Oryktognose – 2. Abth. Grundzüge der Geologie und Geognosie.

VERY SCARCE. Each part has its own special titlepage. Contents: 1. Grundzüge der Oryktognose (Heidelberg, 1833), which see next entry. 2. Grundzüge der geologie und geognosie (Heidelberg, 1831).

REFERENCES: NUC: **327**, 218-20 [NL 0266734].

**3006. 2nd edition, 1833:** Grundzüge der Oryktognose. Lehrbuch für öffentliche Vorträge ... Zweite Auflage, vermehrte und verbessert von Karl Cäsar ritter von Leonhard ... Heidelberg, Joseph Engelmann, 1833.

8°: 398 p.

VERY SCARCE. Published as the first part of the two volume work, *Naturgeschichte des Mineralreichs* (Heidelberg, 1831-3), which see previous entry.

REFERENCES: NUC: **327**, 218-20 [NL 0266721].

**3007. — German, 1851.**

Naturgeschichte des Steinreichs. Volksfässlich und in Beziehung auf bürgerlichen Leben, Gewerbe und Künste. Leipzig, 1851.

8°: 373 p.

VERY SCARCE. Petrology??

REFERENCES: NUC: **327**, 218-20 [NL 0266735].

**3008. 3rd edition, 1851:** Mineralogie und Geognosie, oder Naturgeschichte des Steinreichs. Volksfäßlich und in Beziehung auf bürgerliches Leben, Gewerbe und Künste. Dritte, verbessert Ausgabe. Stuttgart, J.B. Müller, 1851.

8°: iii-xii, 384 p., 53 illus. VERY SCARCE.

REFERENCES: NUC: **327**, 218-20 [NL 0266731].

**3009. — German, 1854.**

Aus unserer Zeit in meinem Leben. Stuttgart, 1854.

8°: [18], 176 p.

VERY SCARCE. Leonhard's autobiography.

REFERENCES: NUC: **327**, 218-20 [NL 0266707].

**3010. — German, 1814.**

Einige Worte über meine Mineralien-sammlung. Hanau, 1814.

8°:

RARE. Leonhard's thoughts on mineral collecting.

REFERENCES: BL: [B.258.(10.)].

**3011. — German, 1832.**

Die Basalt-gebilde in ihren Beziehungen zu normalen und abnormen Felsmassen, von Karl Cäsar von Leonhard ... Stuttgart, E. Schweizerbart's Verlagshandlung, 1832.

2 vols. and atlas. (Text) 8°: ??; (Atlas) 8 p., 20 plates (partly colored).

VERY SCARCE. First edition. Rocks – Igneous; Basalt; Petrology;

**3012. — German, 1846.**

Bericht über Pierre de Tchihatcheff: Voyage scientifique dans l'Altaf oriental. Aus den Heidelberger Jahrbüchern der Literatur mit Zusätzen besonders abgedruckt. Heidelberg: J.C.B. Mohr, 1846.

8°: VERY SCARCE.

REFERENCES: NUC.

**3013. — German, 1818.**

Mineralogisch-chemische Untersuchungen des Triphan's und Tantalit's von Leonhard und Vogel. München, Lentner, 1818.

8°: 38 p., one plate.

VERY RARE. Co-authored with Vogel, H. A. (Heinrich August), 1778-1867.

Spodumene. Tantalite.

**LESSER, Friedrich Christian.** (BORN: Nordhausen, Germany, 12 May 1692; DIED: Nordhausen, Germany, 17 September 1754) *German theologian.*

Lesser acted as a tutor in Berlin, before becoming pastor of the church and administrator of the Orphanage at Nordhausen. He was devoted to natural history and its relationship to the bible. In this vein, he authored several books on insects, the sun, plants, etc. Lesser was a member of the Leopoldian and Berlin Academies.

REFERENCES: *Biographie Universelle*: **21**, 301-3. • DBA: I 757, 106-208; II 805, 373. • Ferguson, *Bibliotheca Chemica*, 1906: **2**, 28. • Hirsching, *Historisch-literarisches Handbuch*, 1794-1815. • Jöcher, *Gelehrten-Lexikon, Supplement*: **3** (1810), col. 1683. • Lambrecht & Quenstedt, *Catalogus*, 1938: 260. • Lesser, J.P.F., *Nachricht von dem Leben und Schriften Herrn F. C. Lesser*. Nordhausen, 1755. [BL: B.483.(4.)]. • Meusel, *Verstorbenen Teutschen Schriftsteller*, 1802-16: **8**, 172-84. • *Nouvelle Biographie Générale* (Hoefer): **30**, col. 966. • Poggendorff: **1**, col. 1436. • Rein, Siegfried., *Friedrich Christian Lesser*. 2002. 192 p., 35 illus. • Sarjeant, *Geologists*, 1980: **3**, 1557. • WBI.

**3014. — Latin, 1727.**

Frider. Chr. Lesser ... Epistola de lapidibvs cvriosis, circa Nordhvsam eivsque confinia inveniri solitis qva ... Domino Friderico Hoffmano ... honoribvs ex animo gratvlatvr Fridericvvs Christianvs Lesservs, Nordh. Nordhausen, 1727.

4°: 8*l.*; [16] p.

RARE. A letter on the curious stones found in the vicinity of Nordhausen. The author uses this text to illustrate the evidence of God in the creation of figured and other stones.

REFERENCES: Gatterer, *Mineralogischen Literatur*, 1798-9: **2**, 136. • *Katalog Bergakademie Freiberg*, 1879: p. 404 [IX. 1258.]. • LKG: XIV 158.

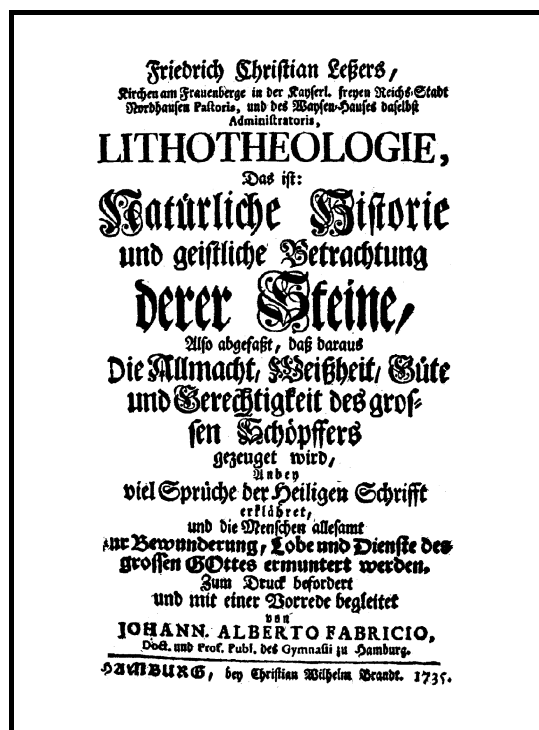
**3015. — German, 1732** [Prospectus?].

Kurze Entwurf einer Lithotheologie, oder eines Versuches, durch natürliche und geistliche Betrachtung der Steine die Allmacht, Güte, Weisheit und Gerechtigkeit des Schöpfers zu erkennen, und die Menschen zur Bewunderung, Lobe und Dienste desselben aufzumuntern. Nordhausen, 1732.

8°: A-C<sup>8</sup>; 24*l.*; [48] p.

VERY RARE. Prepublication prospectus for the *Lithotheologie* (Hamburg, 1735).

REFERENCES: Beekman, *Systematische Mineralogie*, 1906: 33. • Cobres, *Deliciae Cobresianae*, 1782: 2, 693. • Ferguson, *Bibliotheca Chemica*, 1906: 2, 28. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 25. • LKG: XII 14. • Wallerius, *Brevis Introductio*, 1779: 71.



LITHOTHEOLOGIE, 1735

**3016. — German, 1735** [First edition].

Friedrich Christian Lessers, | [...3 lines of titles and memberships...] | Lithotheologie, | Das ist: | Natürliche Historie | und geistliche Betrachtung | derer Steine, | Also abgefaßt, daß daraus | Die Allmacht, Weisheit, Güte | und Gerechtigkeit des gros= | sen Schöpfers | gezeuget wird, | Anbey | viel Sprüche der Heiligen Schrift | erkläret, | und die Menschen allesamt | zur Bewunderung, Liebe und Dienste des | grossen Gottes ermuntert werden. | Zum Druck befördert | und mit einer Vorrede begleitet | von | Johann. Alberto Fabricio, | Doct. und Prof. Publ. des Gymnasii zu Hamburg. | [rule] | Hamburg, bey Christian Wilhelm Brandt. 1735.

8°: a-c<sup>8</sup> A-Mmmm<sup>8</sup> Nnnn<sup>2</sup> 2a-2c<sup>8</sup> d<sup>4</sup> (d2 signed c2); 702ℓ; [i]-xlvi, [1]-1300, [56] p., 10 folding plates. Pages 1099-1105 misnumbered 1200-1204. Three folding tables bound in at pages 242, 344 & 436. Indexes. PAGE SIZE: 170 x 100 mm.

CONTENTS: [i-ii], Title page, verso blank.; [iii]-viii, Dedication signed Friedrich Christian Less, 1 May 1734.; [ix]-xl, "Vorrede."; [xli]-xlvi, "An den | Christlichen Leser/ | Vorrede D. Jo. Alb. Fabricii."; xlvii-xlviii, "Aerotherologie. | Einleitung | über die Worte Hiobs, IV, 10."; [plate.]; [1]-1300, Text.; [56 pgs], Indexes.

SCARCE. A complex and detailed work examining in every facet of the mineral kingdom the evidence of God's fingerprint. Referencing and quoting hundreds of ancient and contemporary writers Lesser assembled a tremendous bank of information to support his viewpoint that God alone was responsible for geology, mineralogy, crystallography, etc. The author was so successful in selecting his evidence that the *Lithotheologie* is commonly viewed as the one of the foundation works in reconciling theology with mineralogy and geology.

The text is divided into nine books: (1) covers the fundamental relationship between the earth, air, water and life, (2) describes the origins of rocks, fossils and minerals, (3) describes the occurrences of mineralized bodies inside the earth, (4) covers the properties of stones and minerals, (5) highlights precious and semiprecious gemstones, (6) stones used in building, manufacture and art, (7) provides descriptions of the misuse of gemstones, e.g. mythical powers, (8) covers artificial stones of all types, and (9) wondrous stones, such as Lot's wife turned to a pillar of salt. At the end are two indexes. The first provides references to sections in the Bible, while the other lists subjects covered.

REFERENCES: Beekman, *Systematische Mineralogie*, 1906: 33. • BL: [987.e.32.]. • Cobres, *Deliciae Cobresianae*, 1782: 2, 693. • Dryander, *Catalogus Banks*, 1796-1800: p. 74. • Ferguson, *Bibliotheca Chemica*, 1906: 2, 28. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 25. • LKG: XII 14. • NUC: 328, 337-9 [NL 0284345]. • Roller & Goodman, *Catalogue*, 1976: 2, 103. • Schröter's *Journal für die Liebhaber*: 3, 54. • Sinkankas, *Gemology Bibliography*, 1993: no. 3904 [reproduces the title page]. • Wallerius, *Brevis Introductio*, 1779: 71.

**3017. 2nd edition, 1751:** Friedrich Christian Lessers ... Lithotheologie, das ist: Natürliche Historie und geistliche Betrachtung derer Steine, also abgefaßt, dass daraus die Allmacht, Weisheit, Güte und Gerechtigkeit des grossen Schöpfers gezeugt wird, anbey viel Sprüche der Heiligen Schrift erkläret, und die Menschen allesamt zur Bewunderung, Liebe und Dienste des grossen Gottes ermuntert werden. Neu verbesserte Auflage. Hamburg: Bey Christian W. Brandt, 1751.

8°: xlviii, 1488, [64] p., woodcut (p. 1274), 10 folding plates, 3 folding tables.

VERY SCARCE. Consists of 9 books bound in two volumes. Enlarged and corrected edition of a work that gives a thorough account of stones and minerals in reference to theology. Lesser describes their appearance, colors, hardness, uses, the philosopher's stone, pharmaceutical and chemical preparations, "marvelous" stones, the origins of rocks, their distribution, stones found in the bodies of animals and man, etc. The plates show minerals, curious finds, metals, etc.

REFERENCES: BL: [988.c.33.]. • Cobres, *Deliciae Cobresianae*, 1782: 2, 693. • Dryander, *Catalogus Banks*, 1796-1800: p. 74. • Ferguson, *Bibliotheca Chemica*, 1906: 2, 28. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 25. • LKG: XII 15a. • NUC: 328, 337-9 [NL 0284346]. • Roller & Goodman, *Catalogue*, 1976: 2, 103. • Schröter's *Journal für die Liebhaber*: 3, 54. • Selmei Műemlékönyvtár Kötetkatalogusa: no. 447. • Sinkankas,

## LETEUR

*Gemology Bibliography*, 1993: no. 3905 [no detail]. • Ward & Carozzi, *Geology Emerging*, 1984: no. 1381.

**3018. French transl., 1742:** Lithothéologie par Mr. Fr. Chr. Lesser ... Traduite en François avec des remarques de Mr. Lyonnet. A la Haye, 1742.

2 vols.

EXTREMELY RARE. No trace of this supposed French translation has been found. It is, however, listed in a few of the early bibliographies.

REFERENCES: Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 25. • LKG: XII 15b.

### 3019. — Latin, 1736.

Epistola de Praecipuis Naturae et Artis Curiosis Speciminibus Musei, vel potius Physiotechnotamei, F. Hoffmanni, ... [Halle, 1736.]

4°: 8ℓ.; [16] p.

VERY SCARCE. Letter describing the curious aspects of nature as exhibited by specimens in his natural history cabinet.

REFERENCES: BL: [1044.f.35.]. • Dryander, *Catalogus Banks*, 1796-1800: p. 26. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 261. • LKG: XV 10.

### 3020. — German, 1752.

Nachrichtliche Beschreibung des ohnweit des Berg-Schlusses Straussberg in dem Hochfürstl. Schwarzburgl. Rudolstädtschen Amte gleiches Nahmens neu entdeckten Muschel-Marmors, welcher zugleich mit andern Marmor-Arthen in Vergleichung gezogen wird. Nordhausen, J.A. Cöler, 1752.

4°: 48 p.

RARE. Description of the building stones of Straussberg in Austria, especially marble and limestone.

REFERENCES: Cobres, *Deliciae Cobresianae*, 1782: 2, 756. • Dryander, *Catalogus Banks*, 1796-1800: p. 132. • Gatterer, *Mineralogischen Literatur*, 1798-9: 2, 194. • *Leipziger gelehrte Zeitung*: 1752, 269. • LKG: XVI 307. • Roller & Goodman, *Catalogue*, 1976: 2, 103. • Schröter's *Journal für die Liebhaber*: 3, 64.

### 3021. — German, 1754 [First edition].

Einige kleine Schriften theils zur Geschichte der Natur, theils zur Physicotheologie gehorig angefertigt von Friedrich Christian Lesser ... Leipzig und Nordhausen, Verlegts Johann August Coler, Privilegiierter Buchhandler in Ellrich, 1754.

8°: π<sup>1</sup>)(<sup>4</sup>A<sup>7</sup>B-M<sup>8</sup>N<sup>7</sup>; 107ℓ.; [8], 197, [9] p. VERY SCARCE.

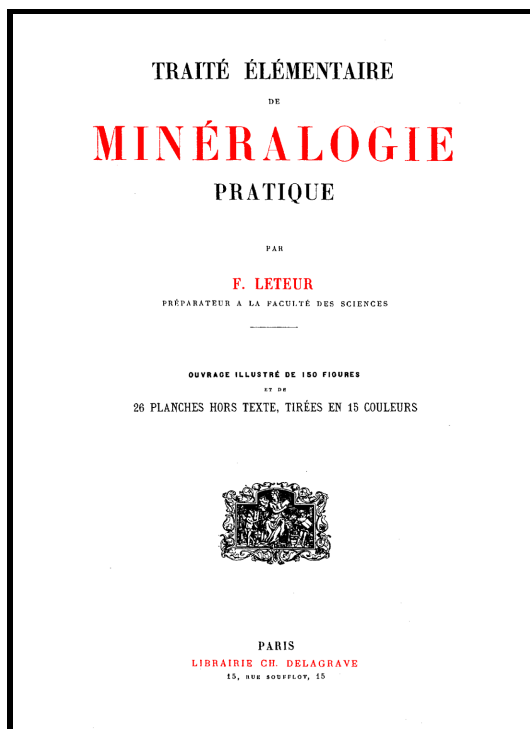
Reprinted, 1770: *Einige kleine Schriften, theils zur Geschichte der Natur, theils zur Physikotheologie gehorig. Leipzig und Nordberg, 1770.*

REFERENCES: BL. • LKG: VI 31.

**LETEUR, F.** *French chemist.*

### 3022. — French, 1907.

[In black:] *Traité Élémentaire* | De | [in red:] *Minéralogie* | [in black:] *Pratique* | par | [in red:] F. Leteur | [in black:] | Préparateur A La Faculté Des Sciences | [rule] | *Ouvrage Illustré De 150 Figures* | Et De 26 Planches Hors Texte, Tirées En



*Traité Élémentaire*, 1907

15 Couleurs | [ornament] | Paris | [in red:] Librairie Ch. Delagrave | [in black:] 15, Rue Soufflot, 15.

8°: [4], [1]-152 p., 26 chromolithographic plates (numbered I-XXVI). PAGE SIZE: 300 x 216 mm.

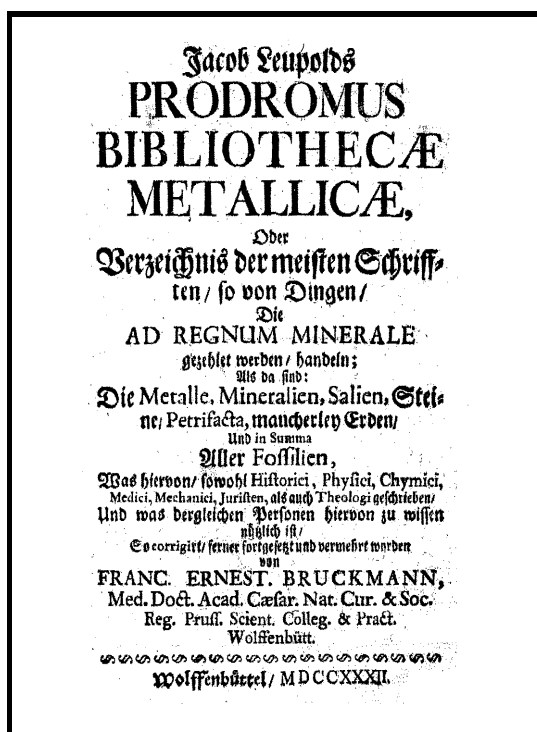
CONTENTS: [2] pgs], Half title page, "Traité Élémentaire | De | Minéralogie | Pratique," verso blank.; [2] pgs], Title page, verso blank.; [1] "Introduction."—signed F. Leteur.; [2], Blank.; [3]-73, Text [=practical mineralogy]; [74], Blank.; [75], Sectional title page, "Description | Des | Principales Espèces Minérales."; [76], Blank.; [77]-148, Text [=descriptive mineralogy]; [149]-152, "Table Des Matières."

VERY SCARCE. A comprehensive introductory treatise on practical mineralogy that includes chapters on crystallography, optics, physical properties, chemical constitution, and illustrated with good color plates of various mineral species. The first portion of the text is divided into 6 sections. Topics covered are definitions, crystallography, optics, physical properties, chemical composition, practical determination of mineral species, and an overview of the systematic classification. The second portion is a descriptive mineralogy that illustrates many of the described species on one of the 26 chromolithographic plates, which show 396 mineral specimens. These renderings are of good quality with individual species easily recognizable. They are the same plates that accompanied Gustav Adolf Sauer's *Mineralkunde* (Stuttgart, 1905-6) and Alexander Bernard's *Atlas Minéralû* (Prague, 1907).

REFERENCES: BMC: 7, p. 624. • *Centralblatt für Mineralogie*: Jhg. 1907, p. 761. • *International Catalogue of Scientific Literature*: 1909, no. 9474 [gives year of publication



LEUPOLD



PRODROMUS BIBLIOTHECÆ METALLICÆ, 1732

as 1907].

**LEUPOLD, Jacob.** (BORN: 25 July 1674; DIED: 12 January 1727) *German mathematician.*

REFERENCES: DBA: I 758, 446-456; II 807, 213-222. • Hirsching, *Historisch-literarisches Handbuch*, 1794-1815. • Jöcher, *Gelehrten-Lexikon, Supplement*. • NDB. • Poggendorff: I, col. 1438. • WBL.

**3023. — German, 1726** [First edition].

Prodromus | Bibliothecæ | Metallicæ, | Oder,  
| Verzeichnis der meisten Schrift= | ten, so

von Dingen, die | ad Regnum minerale |  
gezehlet werden, handeln; | Als da sind: | Die  
Metalle, Mineralien, Salien, Stei= | ne, Petrefacta,  
mancherley Erben, | und in Summa | Aller  
Fossilien, | was hiervon, so wohl | Historici, Physici,  
Chymici, Medici, | Mechanici, Juristen, als auch  
Theo- | logi geschrieben, | und was dergleichen  
Personen hiervon | zu wissen nützlich ist, | so  
colligiret und ferner fortgesetzt wird | von | Jacob  
Leupold. | [rule] | Leipzig, gedruckt bey Christoph  
Zunker.

8°: A-C<sup>4</sup> 2A<sup>4</sup>; 32 $\ell$ .; no pagination.

VERY RARE. A very early bibliography of mining, mineralogy, and metallurgy. According to Besterman, Leupold's *Prodromus* is the first separately published bibliography on mining and metallurgy.

REFERENCES: Besterman, *Bibliography of Bibliographies*, 1965-6. • BL: [440.k.22.]. • Dryander, *Catalogus Banks*, 1796-1800: p. 1. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 2. • LKG: I 1. • NUC: [no copy listed].

**3024. 2nd edition, 1732:** Jacob Leupolds | *Prodromus* |  
Bibliothecæ | Metallicæ, | Oder | Verzeichnis der meisten  
Schrift= | ten/ so von Dingen/ | Die | Ad Regnum  
Minerale | gezehlet werden/ handeln; | Als da sind: |  
Die Metalle, Mineralien, Salien, Stei= | ne/ Petrifacta,  
mancherley Erden/ | und in Summa | Aller Fossilien, |  
Was hiervon/ sowohl Historici, Physici, Chymici, | Medici,  
Mechanici, Juristen, als auch Theologi geschrieben/ | Und  
was dergleichen Personen hiervon zu Wissen | nützlich  
ist/ | So Corrigirt/ ferner fortgesetzt und vermehrt worden  
| von | Franc. Ernst Bruckmann, | [...3 lines of titles  
and memberships...] | [ornate rule] | Wolfenbüttel/  
MDCCXXXII.

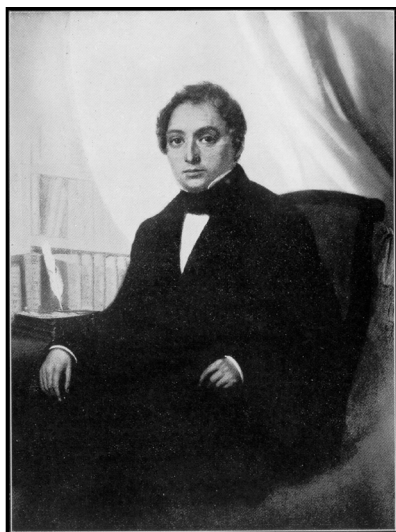
8°: [1]-157, [14] p.

RARE. Second augmented edition, edited by FRANZ ERNST BRÜCKMANN, consisting of a reworking of the first edition together with supplemental material bringing the work up to date with a total of c1750 entries. It contains information found no where else. For example, there are scattered references to collection catalogues of mineral collections with short notes on their fate. For example "Catalogus ... über Metallen und Mineralien" of Benedict Drechsler, a mining officer in Wunsiedel, is described, and this is the only reference to this particular work. Brückmann adds that his fine collection was destroyed by fire in 1731. Two other supplements taking the work to 1742 were published by Brückmann in his *Epistolorum Itinerariorum Centuria*, 1742-50.

REFERENCES: Besterman, *Bibliography of Bibliographies*, 1965-6: 1890. • BL: [957.m.31.(1.)]. • Dryander, *Catalogus Banks*, 1796-1800: p. 1. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 2. • LKG: I 1. • Petzholdt, *Bibliotheca Bibliographica*, 1866: p. 565-6.

**LÉVY, Armand.** (BORN: Paris, France, 14 November 1795; DIED: Saint-Germain, France, 29 July 1841) *French physician, mineralogist & mathematician.*

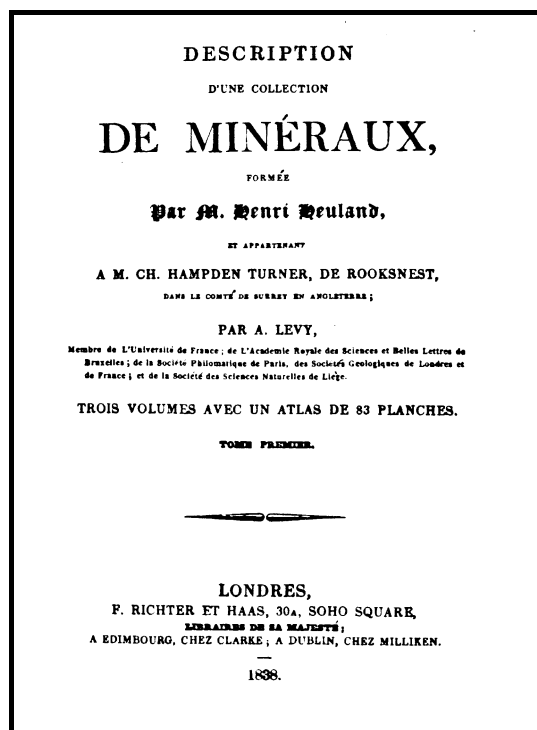
Lévy was recognized early on to have a proclivity for math and was given a good education in France. In 1818, he was sent to London to study at the Royal College of Physicians. While in England he became associated with the successful mineral dealer Henry Heuland. Through Heuland, Lévy came to know many of the leading English scientists, including especially William Hyde Wollaston [1766-1828] and the astronomer John William Herschel [1792-1871]. Lévy became an instructor at the University of Liège in Belgium from 1828 to 1830. From there he went on to become professor of mineralogy at the Collège



LÉVY

Royal de Charlemagne in Paris. He held membership in the Bruxelles Academie des Sciences.

REFERENCES: *Annuaire de l'Academie des Sciences de Bruxelles*. • *Biographie Universelle*: 24, 414. • *Jewish Biographical Archive*: 430, 197-207; S75, 99-101. • Lacroix, Alfred., "Armand Lévy (1795-1841)," *Bulletin de la Société Française de Minéralogie et de Cristallographie*, 42 (1919), 122-9. • Le Roy, A., *Liber memorialis: l'Université de Liège depuis sa formation*. Liège, 1869, pp. 425-8. • Poggendorff: 1, cols. 1442-3. • Sarjeant, *Geologists*, 1980: 3, 1561. • WBI.



DESCRIPTION D'UNE COLLECTION, 1838

### 3025. — French, 1837-8 [Collection catalog].

Description | D'Une Collection | De Minéraux, | Formée | Par M. Henri Heuland, | Et Appartenant | A M. Ch. Hampden Turner, De Rooksnest, | Dans Le Comté De Surrey En Angleterre; | Par A. Lévy, | Membre De L'Université De France; De elles; De La Société Philomatique De Paris, De Sociétés Géologiques De Londres | Et De France; Et De La Société Des Sciences Naturelles De Liège. | Trois Volumes Avec Un Atlas De 83 Planches. | Tome Premier. [-Troisième.] | [ornate rule] | Londres, | Adolphe Richter Et Compagnie, | Libraires De Sa Majesté; | A Édinbourg, Chez Clarke; A Dublin, Chez Miliken, | [rule] | 1838.

3 vols. and atlas. [VOL 1: 1838] 8°: [2], [i]-iv, [1]-456, [i]-iii, [3] p.; [VOL 2: 1837] 8°: [2], [1]-476, [i]-iv, [2] p.; [VOL 3: 1837] 8°: [2], [1]-455, [1] blank, [i]-v, [3] p.; [Atlas] plates I-L, L\*, LI-LXXXIII. Sinkankas (1993) calls for half titles on all three vols. of the text. In addition, the "Table des Espèces" and some other additional pages are bound at the start of the vols. he examined. PAGE SIZE: Text: 204 x 115 mm.; Atlas: 315 x 240 mm.

CONTENTS: [Vol 1] [2 pgs], Title page, verso blank.; [i]-iv, Preface.; [1]-456, "Description d'une Collection de Minéraux."; [i]-iii, "Table des Espèces décrites dans le Premier Volume."; [1 pg], Blank.; [1 pg], "Errata du Premier Volume."; [1 pg], Blank.

[Vol 2] [2 pgs], Title page, verso blank.; [1]-476, "Description d'une Collection de Minéraux."; [i]-iv, "Table des Espèces décrites dans le Deuxième Volume."; [1 pg], "Errata du Second Volume."; [1 pg], Blank.

[Vol 3] [2 pgs], Title page, verso blank.; [1]-450, "Description d'une Collection de Minéraux."; 451-455, "Index Général des Espèces Décrites dans cet Ouvrage."; [456], Blank.; [i]-v, "Table des Espèces décrites dans le Troisième Volume."; [1 pg], Blank.; [1 pg], "Errata du Troisième Volume."; [1 pg], Blank.

[Atlas] 84 plates of crystal drawings on 83 leaves.

VERY SCARCE. One of the most elaborate and important catalogs of any mineral collection. About 1806 Henry Heuland [see note below] the premier mineral dealer of the nineteenth century obtained a fine collection of minerals formed by his mineral dealer uncle Jacob Forster [see note under Romé de l'Isle]. After considerably enhancing the collection with valuable additions, Heuland sold the collection to Charles Hampden Turner [see note below] in 1820. However, a condition of the sale was that an elaborate *catalogue raisonné* following the classification system of Haüy be prepared together with an atlas of crystal drawings. For this task the services of Armand Lévy, then resident in London, were retained.

The diligence of Lévy as a mineralogist was impressive. It was due to his careful examination of this large collection and his preparation of the illustrative crystal drawings that Lévy discovered and described the mineral species: forsterite, babingtonite, brochantite, roselite, brookite, herschelite, phillipsite, and beudantite. In addition, Lévy also described many new varieties of mineral species already known. These



descriptions were set forth in a number of articles published between 1822 and 1827. Then based upon the reputation created by these articles, he left London to live and teach in Belgium. This move to the continent ceased Lévy's involvement with the *Catalogue*, even though as Heuland states in the preface, Lévy had been given a substantial advance. In frustration, Heuland, on the advice of Henry James Brooke [q.v.] and his son Charles Brooke, turned the work over to M.E. Brookes who completed the 34 remaining plates and brought the manuscript to publication. The collection itself was eventually incorporated into Henry Ludlam's, which was bequeathed to the Museum of Practical Geology in London.

**John Henry Heuland.** (BORN: 1778; DIED: Hastings, Sussex, England, 16 November 1856) *English mineral collector & dealer.* Heuland was the nephew of the mineral dealer Jacob Forster [see note under Romé de l'Isle], whose collection he inherited. Subsequently the collection was sold to Charles Hampden Turner, that was later incorporated into Henry Ludlam's, now in the Museum of Practical Geology, London. Heuland was elected to the Geological Society of London in 1813, becoming its foreign secretary from 1818 to 1828. The mineral "Heulandite" named for him by H.J. Brooke in 1822.

**Charles Hampden Turner.** (BORN: ; DIED: ) *English mineralogist & mineral collector.* Turner sold his collection to HENRY LUDLAM.

REFERENCES: Dana's 7th (Bibliography): 76. • NUC: 330, 154 [NL 0313725]. • Partsch, *Katalog der Bibliothek*, 1851: no. 473. • Russell, A., "John Henry Heuland," *Mineralogical Magazine*, 20 (1950), 395-405; 29 (1950), 395-405. • Sinkankas, *Gemology Bibliography*, 1993: no. 3924. (Heuland) Cooper, M.P., "Keeping it in the family: the Humphreys, Forsters and Heulands," *Matrix*, 9 (2001), no. 1, 3-31. • Embry, *Foreword*, 1977. • Russell, A., "John Henry Heuland," *Mineralogical Magazine*, 20 (1950), 395-405. • Sarjeant, *Geologists*, 1980: 2, 1252. • Woodward, *History of the Geological Society*, 1907: 72, 73, 275 & 298. (Turner) Cleavelly, *World Palaeontological Collections*, 1983: 293. • Embry, *Foreword*, 1977: xxii. • Russell, A., "Philip Rashleigh of Menabilly, Cornwall, and his mineral collection," *Journal of the Royal Institute of Cornwall. New Series*, 1 (1952), no. 2, 96-118, portrait.

**LEWIS, William James.** (BORN: Llanwyddelan, Mont., Wales, 10 January 1847; DIED: 16 April 1926) *Welsh crystallographer & mineralogist.*

In 1869, Lewis graduated from Oxford, becoming assistant in mineralogy at the British Museum. In 1881 he was appointed professor of mineralogy at Trinity College of Cambridge, a post he held until his death.

REFERENCES: *American Journal of Science*: 111 (1926), xlv-xlviii. • Barr, *Index to Biographical Fragments*, 1973: 155. • BBA: I 685, 297-300; II 1615, 370-372. • Cleavelly, *World Palaeontological Collections*, 1983: 185. • *Dictionary of Welsh Biography*: 564 [by R.T. Jones]. • *Mineralogical Magazine*: 1926, 241-4. • *Nature*: 117 (1926), 628-9. • Poggendorff: 3, 805, 4, 879, 5, 740 & 6, ??? . • *Proceedings of the Royal Society of London: Series A*, 111 (1926), xlv-xlviii. • WBI.

### 3026. — English, 1899.

A Treatise | On | Crystallography | By | W.J. Lewis, M.A. | Professor Of Mineralogy In The University Of Cambridge, Fellow Of Oriel College, Oxford. | Cambridge: | At The University Press. | 1899 | [All rights reserved.]

8°: [i]-xii, [1]-612 p., 553 text illus. PAGE SIZE: 224 x 140 mm.

CONTENTS: [i-ii], Half title page, "Cambridge Natural Science Manuals. | Geological Series. | Crystallography," verso "London: C.J. Clay and Sons, ..."; [iii-iv], Title page, verso "Cambridge: | Printed By J. And C.F. Clay, | At the University Press."; [v]-viii, "Preface," signed W.J. Lewis, 28 September 1899.; [ix]-xii, "Contents."; 1-604, Text.; 605-612, "Index."

VERY SCARCE. A highly esteemed work, that gives a clear lucid explanation of its subject. Treats crystals, their origins, law of interfacial angle constancy, symmetry, axes, zones, drawing of crystal diagrams, crystallographic projection, twins, crystallographic systems, etc.

REFERENCES: Dana's 7th (Bibliography): 76.

**LEYDOLT, Franz.** (BORN: Vienna, Austria, 15 July 1810; DIED: Vienna, Austria, 10 June 1859) *Austrian naturalist.*

From 1843 to 1859, Leydolt was professor of zoology, mineralogy and botany at the Technical High School (now University) in Vienna.

REFERENCES: ADB. • DBA: I 760, 211-220; II 809, 334-336. • *Österreich Biographisches Lexikon*. • Poggendorff: 1, col. 1446 & 1582. • WBI. • Wurzbach, *Biographisches Lexikon Österreich*, 1856-91.

### 3027. — German, 1853 [First edition].

Anfangsgründe | der | Mineralogie. | [rule] | Von | Franz Leydolt, | [...2 lines of titles and memberships...] | und | Adolf Machatschek, | [...2 lines of titles and memberships...] | [rule] | Mit 9 Kupfertafeln. | [double rule] | Wien 1853. | Verlag von Carl Gerold & Sohn.

8°:  $\pi^8$  1-208; 168 $\ell$ .; [i]-xv, [1] errata, [1]-320 p., tables, 9 folding plates (mostly of crystal drawings). PAGE SIZE: 225 x 145 mm.

CONTENTS: [i-ii], Title page, verso "Buchdruckerei von Carl Gerold & Sohn in Wien."; [iii]-iv, "Vorwort."; [v]-xv, "Inhalt."; [1 pg], "Druckfehler."; [1]-320, Text.; [At end], 9 folding plates.

VERY SCARCE. Co-authored with Adolf Machatschek, this is a beginner's text to the science of mineralogy, which covers the standard information of crystal form, physical and chemical properties, and a descriptive mineralogy.

REFERENCES: BL. • Dewalque, Gustav., *Catalogue des Ouvrages de Géologie, de Minéralogie et de Paléontologie ainsi que des Cartes Géologiques qui se trouvent dans les principales bibliothèques de Belgique*. Liège, 1884. xii, [2], 394 p: no. 316. • NUC.

**3028. 2nd edition, 1859:** Anfangsgründe | der | Mineralogie. | [double rule] | Von | Franz Leydolt, | [...2 lines of titles and memberships...] | und | Adolf Machatschek, | [...2 lines of titles and memberships...] | [rule] | Zweite vermehrte und verbesserte Auflage. | Mit 9 Kupfertafeln und in den Text eingedruckten Holzschnitten. | [double rule] | Wien. | Druck und Verlag von Carl Gerold's Sohn. | 1859.

8°: VERY SCARCE.

REFERENCES: BL. • NUC.

**LEYMÉRIE, Alexandre Félix Gustave Achille.** (BORN: 23 January 1801; DIED: 5 October 1873) *French mineralogist.*



## LEYPOLD

Leymérie was professor of mineralogy and geology at the University of Toulouse. He specialized in the geology of the Pyrenees and the Aquitaine Basin.

REFERENCES: ABF: I 662, 147-151. • *Bulletin de la Société Géologique de France*: 7 (1879), no. 3, 530-56. • Cleavelly, *World Palaeontological Collections*, 1983: 185. • Sarjeant, *Geologists*, 1980: 3, 1563. • WBI.

### 3029. — French, 1857-9 [First edition].

Cours | De | Minéralogie | (Histoire Naturelle.)  
| Par | A. Leymerie, | Professeur à la Faculté  
des Sciences de Toulouse. | [ornate rule] | Première  
Partie. | [ornate rule] | [Next 3 lines of publisher  
information arranged in two columns with a vertical  
rule:] Paris, | Victor Masson, | Place de l'École-  
de-Médecine, 17. | [vertical rule] | Toulouse, | Louis  
Gimet, | Rue des Bolasses, 66. | [short rule] | 1857.

2 vols. [VOL 1] 8°: [i]-xiv, [2], [1]-347 p. [VOL 2]  
8°: [4], [1]-429 p.

CONTENTS: [Vol 1] [i-ii], Half title page, "Cours | De  
| Minéralogie. | (Histoire Naturelle.)," verso printer's  
information.; [iii-iv], Title page, verso blank.; [v]-xiv,  
"Préface.;" [1 pg], Errata.; [1 pg], Blank.; [1]-347, Text.

[Vol 2] No copy examined.

RARE. The author observes in his foreword  
that the field which had been assigned to mineralogy  
by Werner, Haüy and Brongniart, is invaded by  
an exclusively chemical or physical approach of this  
science. Its course is based essentially on the combined  
principles of Werner and Haüy. Illustrated by 356  
figures engraved in text. Leymery, professor at  
the Faculty of Science of Toulouse, is the author of  
a "Description géologique et paléontologique des  
Pyrénées" (1878-81). He died during an excursion in the  
Pyrenees. Some parts of this course has been published  
in "Journal des Mines."

REFERENCES: BL.

**3030. 2nd edition, 1867:** Cours | de | Minéralogie | (Histoire  
Naturelle) | Par | A. Leymerie | Professeur A La Faculté  
Des Sciences De Toulousé | [short rule] | Deuxième Édition  
| [short rule] | Première Partie | [short rule] | [The next 3  
lines are set in two columns separated by a vertical rule:]  
Paris | Victor Masson et Fils, | Place de l'Ecole de  
Médecine, 17. | [vertical rule] | Toulouse | Édouard  
Privat | Rue des Tourneurs, 45 | [short rule] | 1867.

8°: 828 p.

SCARCE. The second edition of the textbook written  
by Leymérie to accompany the mineralogical lectures he  
presented at the ??.

**3031. 3rd edition, 1880:** Cours | de | Minéralogie | (Histoire  
Naturelle) | Par | A. Leymerie | Professeur A La Faculté  
Des Sciences De Toulousé | [short rule] | Troisième Édition  
| [short rule] | Première Partie | [short rule] | [The next 3  
lines are set in two columns separated by a vertical rule:]  
Paris | G. Masson | Boulevard Saint-Germain, 120 |  
[vertical rule] | Toulouse | Édouard Privat | Rue des  
Tourneurs, 45 | [short rule] | 1880.

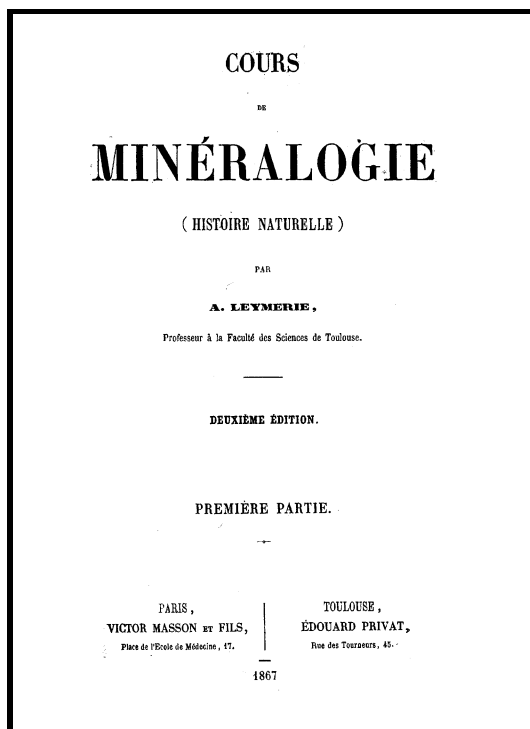
2 vols. [VOL 1] 8°: [VOL 2] 8°: VERY SCARCE.

REFERENCES: Dana's 7th (Bibliography): 76.

### 3032. — French, 1879 [4th edition].

Éléments de minéralogie et de lithologie : ouvrage  
complémentaire des Éléments de géologie par A.  
Leymerie. 4. éd. Paris, 1879.

8°: x, 279 p., illus. VERY SCARCE.



COURS DE MINÉRALOGIE, 1867

## LEYPOLD, F.

### 3033. — German, 1878.

Mineralogische Tafeln. | [ornate rule] | Anleitung  
| zur | Bestimmung der Mineralien | von | F.  
Leybold, | K.W. Regierungsrath a.D. | [ornate rule]  
| Stuttgart. | Verlag von Julius Maier. | 1878.

4°: 128 p An introductory work on determinative  
mineralogy, written with the beginner in mind. VERY  
SCARCE.

REFERENCES: BL. • NUC. • *Tschermaks mineralogische  
und petrographische Mittheilungen*: 1878, p. 560.

**LEYSSER, Friedrich Wilhelm von.** (BORN:  
Magdeburg, Germany, 7 March 1731; DIED: Halle,  
Germany, 10 October 1815) *German naturalist*.

Prussian advisor to the crown on military and do-  
mestic issues, Leysser was president of the Hallischen  
Naturforschenden Gesellschaft (Halle Naturalist Society)  
and a member of the Berlinischen Gesellschaft Natur-  
forschender Freunde (Berlin Society of Naturalist Friends).

REFERENCES: Lambrecht & Quenstedt, *Catalogus*,  
1938: p. 262. • Mayer, Gaston. "Friedrich Wilhelm von  
Leysser (1731-1815) als Mineralogen und Mineralienlieferant  
der Markgräfin Caroline Louise von Baden (1773)," *Der  
Aufschluss*, 28 (1977), 157-8. • Meusel, *Verstorbenen  
Teutschen Schriftsteller*, 1802-16. • Poggendorff: 1, col. 1447.  
• Schmid, G., "Linné und Leysser," *Zeitschrift für Naturwiss-  
enschaften*, 88 (1928), no. 6, 191-266. • Tornier, *Gesellschaft  
Naturforschender*, 1924 [p. 32].

### 3034. — German, 1772-3 [Sale catalog].

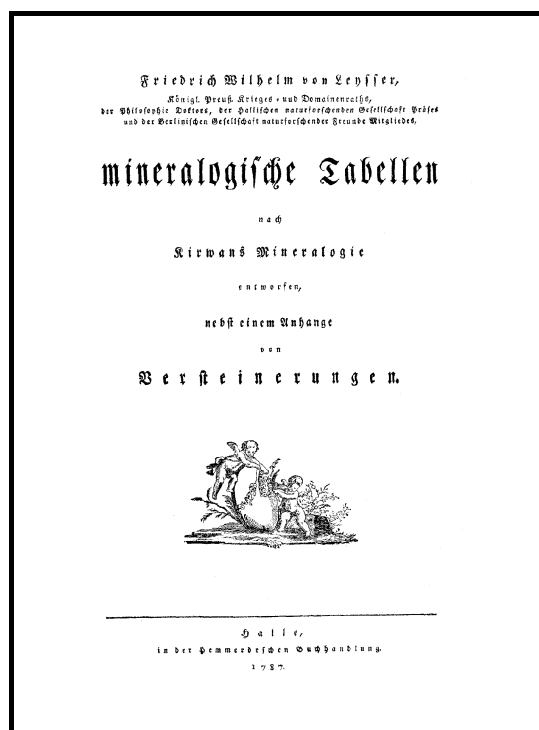
Verzeichniss | einer | Mineraliensammlung | welche  
einzeln | um die beigestzten Preise | verkauft

werden soll. | [rule] | Erstes Stück. | [ornament]  
| [double rule] | Halle, | bey Johann Gottfried  
Trampe. | c10 10 CC LXXII.

4 parts.

RARE. Published in a series of four Theilien or parts, this catalog describes a comprehensive collection of minerals put up for sale beginning in May 1772. In the preface to the first Theil, Leysser extolls the virtue of mineral collecting as a pleasurable pastime pursuit, and in particular, he directs the reader to the fine selection of specimens offered for sale in this publication. Unusual for the time, each specimen described has a fixed price for which the individual piece could be purchased.

REFERENCES: BL: [974.b.3.]. • Freiesleben, *Sächsische Mineralien-Verzeichnisse*, 1828: no. 26. • *Katalog Bergakademie Freiberg*, 1879: p. 407 [VI. 264.]. • NUC: [no copy listed].



MINERALOGISCHE TABELLEN, 1787

### 3035. — German, 1787.

Friedrich Wilhelm von Leysser, | [...3 lines of titles and memberships...] | mineralogische Tabellen | nach | Kirwans Mineralogie | entworfen, | nebst einem Anhang | von | Versteinerungen. | [ornament] | [rule] | Halle, | in der Hemmerdeschen Buchhandlung. | 1787.

2°: [8], 34 p. PAGE SIZE: 285 x 200 mm.

RARE. In order to arrange his own extensive mineralogical cabinet, Leysser developed this series of

mineralogical tables based upon RICHARD KIRWAN's *Elements of Mineralogy* (1st ed., London, 1784). On pages 25-34 a classification plan for fossils is presented.

REFERENCES: *Allgemeine Deutsche Bibliothek*: 86, no. 2, 777. • *Allgemeine Literatur-Zeitung*: 1787, pt. 2, 667. • BL: [443.f.23.]. • *Freilich Sale Catalog*: no. 354. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 38-9 ["Sehr gut und bequem."]. • LKG: XII 108. • NUC. • Reichardt, *Bibliotheca Rerum Metallicarum*, 1857: I 87.

### 3036. — German, 1806 [Collection catalog].

Fridr. Wilh. v. Leysser | Königl. Preuss. Krieges- und Domainenraths | Verzeichniss | der | von ihm gesammelten | Mineralien | mit | mineralogischen Bemerkungen. | [ornament] | Erster Theil, | die Erd- und Steinarten enthaltend. | [ornate rule] | Halle, 1806. | Hendels Verlag.

8°: [i]-viii, [1]-296 p. PAGE SIZE: 202 x 118 mm.

CONTENTS: [i-ii], Title page, verso blank.; [iii]-viii, "Vorwort.;" [1]-296, Text.

RARE. No more published. According to the preface, Leysser collected earths, stones, minerals, metals and petrifications for over 60 years, accumulating over 10,000 specimens. He had collected minerals to enrich his knowledge of the science, and pursue in his own measured way, the theoretical aspects. No species escaped his notice and the collection includes examples of almost all the known ones, and many of their seemingly endless varieties. He writes at the end that his age and lack of time to study mineralogy have caused the collection to be put up for sale, through a Herrn Buhle, Inspector of the reform Gymnasium.

This work, the only part published of two (the other to list the salts, inflammables, metals, semi-metals, and petrifications), classifies and describes the specimens of the earths and stones of this extensive collection, and includes besides the species name, information on the locality, and infrequently the year acquired, the source and references to other minealogical works. The collection was ultimately purchased by a collector of the name Bähr (finance advisor in Köthe) between 1806 and 1826, and was afterwards lost.

REFERENCES: BL: [953.i.17.]. • Freiesleben, *Sächsische Mineralien-Verzeichnisse*, 1828: no. 61. • *Katalog Bergakademie Freiberg*, 1879: p. 407 [VI. 87.]. • Leonard's *Taschenbuch*: 1 (1806), 323-4. • LKG: XV 49. • Mayer, Gaston. "Friedrich Wilhelm von Leysser (1731-1815) als Mineralogen und Mineralienlieferant der Markgräfin Caroline Louise von Baden (1773)," *Der Aufschluss*, 28 (1977), 157-8. • NUC: [no copy listed]. • Partsch, *Katalog der Bibliothek*, 1851: no. 474. • Sinkankas, *Gemology Bibliography*, 1993: no. 3944. • Wilson, *History of Mineral Collecting*, 1994: 159 & 180.

### LEZAY-MARNÉZIA, Claude François Adrien de.

REFERENCES: ABF: I 662, 232-247. • Beauchamp, *Biographie Moderne*, 1816. • Dezobry, *Dictionnaire de Biographie*, 1889. • Feller, *Biographie Universelle*, 1851. • Le Moynes, Nicolas Toussaint., *Les siecles litteraires de la France*. Paris, 1800-3. 4 vols. [Reprinted, Genève, Slatkine, 1971.]. • *Nouvelle Biographie Générale* (Hoefer). • WBI.

### 3037. — French, 1778.

Essai sur la minéralogie du bailliage d'Orgelet, en

## LHWYD

Franche-Comté par M. le Marquis de Marnesia ....  
Bemucon., Charmet, 1778.

8°: 90 p. VERY SCARCE.

REFERENCES: BL: [no copy listed]. • LKG: XIV 348.

**LHWYD (Llhwyd, Lhuyd, Llwyd), Edward.** (BORN: Probably Glan Ffraid, Cardiganshire, Wales, 1660; DIED: Oxford, England, 30 June 1709) *English antiquarian & naturalist.*

Lhwyd had very limited means while he was a student at Oxford, to the extent that he took rather miserable employment before completing a degree. Created an M.A. by Convocation, 1701. Lhwyd collected plants around the hill mass of Snowdon in Wales and established the existence of a distinct alpine flora and fauna there. Ray published Lhwyd's list of plants around Snowdon in his Synopsis, 1690. He assisted Lister in cataloguing mollusks and fossils in Oxfordshire. This topic became his primary scientific interest and resulted ultimately in Lithophylacii botanici ichnographia, 1699. Fossils involved him in geology. Ichnographia included six letters on geological subjects. The fossil content of stones led him to question the deluge account. Lhwyd undertook a general natural history of all the celtic parts of Britain (including also Ireland and Brittany). Archaeologia britannica, 1707, was to have been the first volume of this work, but Lhwyd did not live to publish the rest. That volume is more linguistic than scientific; it inaugurated the study of comparative celtic philology. Lhuyd was assistant to Robert Plot, keeper of the Ashmolean Museum from 1683 to 1691. He took over the post after Plot's death? and became Keeper of the Ashmolean Museum, 1691-1709. Apparently the keepership carried no salary; Lhwyd derived his income from fees paid by visitors. Ellis says that his income from the museum never exceeded £50 per annum. Lhwyd undertook to collect material on Wales for a new edition of Camden's Britannia, published in 1695. For this he received a modest single payment from the publisher. He was partially supported by subscribers to his natural history of the celtic parts of Britain, 1696-1700. In the first of these years he received more than £100; by 1700 the amount had fallen off to about £11. Elected Esquire Beadle of Divinity at Oxford, 1709. This carried a salary of £100, but Lhwyd died after only a few months.

Lhwyd undertook his contributions to Camden's Britannia explicitly to encourage Welsh gentry to support a bigger project, and immediately after Britannia appeared he did begin to garner support. In 1695 he published a proposal (see Ellis) soliciting support for a pension to finance his projected Archaeologia britannica, and he received enough to proceed, though not everything promised actually came in. He dedicated the volume of Archaeologia that did appear to Sir Thomas Mansell. He assisted Martin Lister with lists of Oxfordshire species of mollusks and fossils. Quarrelled with Dr. Woodward about the origin of marine fossils. Became a Fellow of the Royal Society in 1708.

REFERENCES: Allibone, *Dictionary of English Literature*, 1859-71. • BBA: I 686, 138-179; II 1616, 38. • Campbell, J.L. & D. Thomson, *Edward Lhuyd in the Scottish Highlands, 1694-1700*. Oxford, 1963. • DNB: 11, 1096-8. • DSB: 8, ?? . • Ellis, R., "Some Incidents in the Life of Edward Lhuyd," in: R.T. Gunther, ed., *Life and Letters of Edward Lhuyd (Early Science in Oxford, 14)*, Oxford, 1945, pp. 1-51. • Emery, F.V., *Edward Lhuyd, F.R.S., 1660-1709*. Cardiff, 1971. • Jahn, M.E., "Notes on Edward Lhuyd," *Journal of the Society for the Bibliography of Natural History*, 4 (1966), 244-8, 6 (1971), 61-2 & 7 (1972), 86-97. • Poggendorff: 1, col. 1448 & 1582. • Roberts, B.F., "In Search of Edward Lhuyd," *Archives of Natural History*, 16 (1989), 49-57. • Waller, *Dictionary of Universal Biography*, 1857-63. • Walter, G. & F. Emery, "Edward Lhuyd, Edmund Gibson, and the Printing of Camden's Britannia, 1695," *The Library*, 32

## EDVARDI LUIDII

APUD

Oxonienſes Cimeliarchæ Aſhmoleani

## LITHOPHYLACII BRITANNICI ICHNOGRAPHIA.

SIVE

Lapidum aliorumque Foſſilium Britannico-  
rum ſingulari figura inſignium; quotquot ha-  
ctenus vel ipſe invenit vel ab amicis accepit,

DISTRIBUTIO CLASSICA:

ſcrinii ſui lapidarii Repertorium cum locis  
ſingulorum natalibus exhibens.

Additis rariorum aliquot figuris ære inciſis; cum  
Epistolis ad Clariffimos Viros de quibſdam circa ma-  
rina Foſſilia & Stirpes minerales præſertim notandis.

*Nuſquam magis erramus quàm in falſis inductioni-  
bus: ſæpe enim ex aliquot exemplis Univerſale  
quiddam colligimus; idque perperam, cum ad  
ea qua excipi poſſunt, animum non attendimus;*  
Du Hamel.

L O N D I N I:

Ex Officina M.C. clō lōc xcix.

LITHOPHYLACII BRITANNICI ICHNOGRAPHIA, 1699

(1977), 109-37. • Watt, *Bibliotheca Britannica*, 1824. • WBI.

**3038. — English, 1699** [First edition].

Edvardi Luidii | Apud | Oxonienses Cimeliarchæ  
Ashmoleani | Lithophylacii Britannici | Ichno-  
graphia. | Sive | Lapidum aliorumque Foſſil-  
ium Britannico- | rum ſingulari figura inſignium;  
quotquot ha- | ctenus vel ipſe invenit vel ab am-  
icis accepit, | Distributio Classica: | Scrinii sui  
lapidarii Repertorium cum locis | ſingulorum na-  
talibus exhibens. | Additis rariorum aliquot ſiguris  
ære incisis; cum | Epistolis ad Clariffimos Viros  
de quibusdam circa ma- | rina Foſſilia & Stirpes  
minerales præſertim notandis. | [rule] | [...4 lines of  
quotation, signed Du Hamel...] | [rule] | Londini: Ex  
Officina M.C. clō lōc xcix.

4°:  $\pi^4$  a<sup>4</sup> B-T<sup>4</sup> (\$2 signed); 80 $\ell$ .; [16], 1-139, [5] p.,  
23 plates. The 23 engraved plates are inserted between  
the text (N2v) and the Epistolæ (N3r).

CONTENTS:  $\pi$ 1r, blank;  $\pi$ 1v, "Hujus Libri centum  
& viginti tantum Exemplaria impressa sunt, impensis  
infrascriptorum.";  $\pi$ 2r, Title page.;  $\pi$ 2v, Blank.;  $\pi$ 3r,  
Dedication to Martin Lister.;  $\pi$ 3v, Blank.;  $\pi$ 4r-a3v,  
"Præfatio."; a4r, "Elenchus Classium.; a4v, [contents to]  
"Epistolæ/"; B1r-N2r (pp. 1-91), Text.; N2v, Blank.; N3r,  
Half title page, "[rule] | Epistolæ | [rule]"; N4r-T2r (pp.  
95-139), "Epistolæ I-VI."; T3r-T4v, Index.

RARE. The cost of publication of Lithophylacii  
britannici ichnographia, which Oxford University  
declined to finance, was subscribed by patrons and

friends, including Newton, Hans Sloane, and Martin Lister. This was one of the early subscription publications.

REFERENCES: Gunther, *Early Science at Oxford*: 14, 262-3. • Jahn, *Editions of Edward Lhwyd*, 1972: p. 91. • LKG: XIV 408. • NUC: 331, 309-10 [NL 0332543].

**3039. Pirated edition, 1699:** Edvardi Luidii | Apud | Oxonienses Cimeliarchæ Ashmoleani | Lithophylacii | Britannici | Ichnographia | Sive | Lapidum aliorumq; Fossilium | Britannicorum singulari figura insigni- | um, quotquot hactenus vel ipse invenit vel | ab amicis accepit, | Distributio Classica, | Scrinii sui lapidarii Repertorium cum locis | singulorum natalibus exhibens. | Additis rariorum aliquot siguris ære incisis | cum Epistolis ad Clarissimos Viros de quibusdam | circa marina fossilia & stirpes minerales | præsertim notiandis. | [...4 lines of quotation, signed Du Hamel...] | [rule] | Londini | Ex Officina M.C. Clo IOC XCIX. | [rule] | Lipsiæ. | Sumt. Joh. Ludw. Gleditsch & Weidmann.

8°: )<sup>8</sup> A-I<sup>8</sup> K<sup>4</sup> (irregularly signed); 84ℓ.; [16], [1]-145, [5] p., 17 plates. RARE.

CONTENTS: ) (1r, Title page.; ) (1v, "Hujus Libri ..."; ) (2r, Dedication to Martin Lister.; ) (2v)-(7r, "Præfatio."; ) (7v, "Elenchus Classium."; ) (8r)-(8v, [contents to] "Epistolæ."; A1r-F6r ([1]-91), Text.; F6v, Blank.; F7r-K1r (93-145), "Epistolæ I-VI."; K1v-K3v, Index.; K4, Blank.

REFERENCES: Jahn, *Editions of Edward Lhwyd*, 1972: [see p. 91-4]. • VD17: 23:643593E.

**3040. 2nd edition, 1760:** Edvardi Luidii | Apud | Oxonienses Cimeliarchæ Ashmoleani | Lithophylacii Britannici | Ichnographia. | Sive | Lapidum aliorumque Fossilium Britannicorum sin- | gulari figura insignium, quotquot hactenus vel | ipse invenit vel ab amicis accepit, | Distributio Classica: | Scrinii sui lapidarii Repertorium cum locis singulorum | natalibus exhibens. | Additis rariorum aliquot figuris ære incisis; cum Epistolis ad | Clarissimos Viros de quibusdam circa marina Fossilia & Stripes | minerales præsertim notandis. | [rule] | Editio Altera: | Novis quorundam Speciminum Iconibus aucta. | Subjicitur Authoris Prælectio de Stellis marinis &c. | [rule] | [...3 lines of quotation, signed Du Hamel ...] | Oxonii, | E Typographeo Clarendoniano. | Prostant apud Bibliopolas Oxonienses; J. Rivington in Cœmeterio | Paulino; J. Whiston & B. White in Fleetstreet, Londini. | M DCC LX.

4°: π<sup>1</sup> a<sup>4</sup> A-X<sup>4</sup> χ<sup>1</sup> (\$2 signed); 94ℓ.; [18], 1-156, [6] p., 25 plates. RARE.

CONTENTS: π1r, "Imprimatur"—signed Jo. Browne, 13 May 1760.; π1v, Blank.; a1r, Title page.; a1v, Blank.; a2r-a2v, "Editoris Epistola Præfatoria"—signed Gulielmum Huddesford.; a3r, Dedication to Martin Lister.; a3v, Blank.; a4r-A3v, "Præfatio.; A4r, "Elenchus Classium."; A4v, "Hujus Libri ..."; B1r-N2r (1-91), Text.; N2v, Blank.; N3r, [contents of] "Epistolæ."; N3v, Blank.; N4r-T3v (95-142), "Epistolæ I-VI."; T4r, Half title page, "[rule] | Edvardi Luidii | Prælectio | De Stellis marinis Oceani Britannici, | Nec non | De Asteriarum Entrochorum & Encrinorum | Origine: | Habita quondam in Museo Ashmoleano | Oxonii. | [rule]."; U1r-X2v, "De Stellis Marinis."; X3r-χ1r, Index.; χ1v, Blank.

REFERENCES: Jahn, *Editions of Edward Lhwyd*, 1972: [see p. 94-6]. • NUC: 331, 309-10 [NL 0332545].

**LIBAVIUS (Libau), Andreas.** (BORN: Halle, Germany, c1560; DIED: Coburg, Germany, 25 July 1616) *German physician & alchemist.*

Libavius was born the son of a poor weaver, Johann Libau, who traveled from Harz to Halle in search of work. He attended the Universities of Wittenberg and Jena, and finally Basel from which he received his M.D. In 1581, he became a teacher at Illmenau. In 1586, he was appointed "Stadt- und Raths-Schulen Rector" (rector of the schools) in Coburg. From 1588-1591, Libavius worked as professor



LIBAVIUS

of history and poetry at the University of Jena. In 1591, he moved to Rothenburg, where he became municipal physician. In 1592, he was also appointed inspector of schools and received a teaching position. Endless quarrels with the rector of the town schools led to his early departure. Libavius returned to Coburg in 1607, where he was named rector of the newly-founded Gymnasium Casimirianum Academicum.

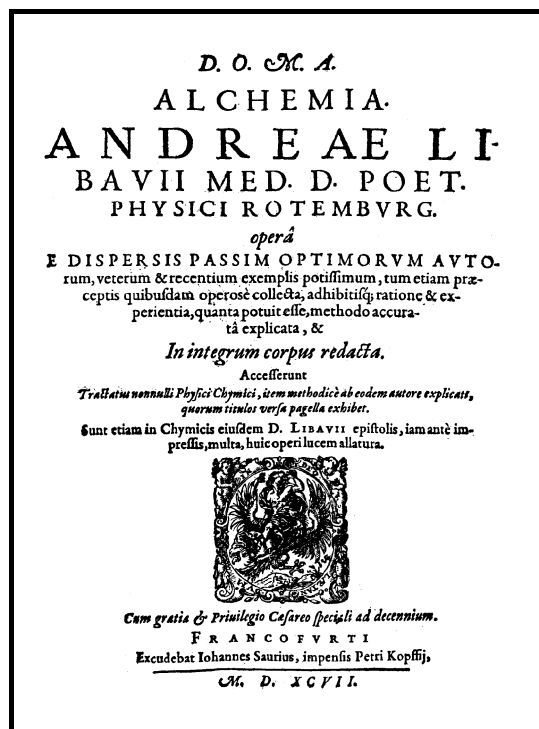
REFERENCES: ADB: 18, 530. • DBA: I 760, 425-431; II 810, 12-14. • DSB: 8, 309-12 [by W. Hubicki; other refs.]. • Ferguson, *Bibliotheca Chemica*, 1906: 2, 31-4. • Günther, *Lebensskizzen der Professoren*, 1858. • Hirsch, *Biographisches Lexikon*, 1884-8: 3, 699-700. • ISIS, 1913-65: 2, 89. • Jöcher, *Gelehrten-Lexikon*, 1750-51. • Kopp, *Beiträge zur Geschichte der Chemie*, 1869: 3, 145-50. • Lambrecht & Quenstedt, *Catalogus*, 1938: 262. • *Nouvelle Biographie Générale* (Hoefer): 31, cols. 116-8. • NDB: 14, 441-2 [by F. Rex]. • Poggendorff: 1, col. 1449. • Schaedler, *Biographisch Handwörterbuch*, 1891: 69-70. • WBI. • *World Who's Who in Science*: 1040.

**3041. — Latin, 1597** [First edition].

D.O.M.A. | Alchemia. | Andreae Li- | bavii Med. D. Poet. | Physici Rotembvrg. | operâ | e dispersis passim optimorum avto- | rum, veterum & recentium exemplis potissimum, tum etiam prae- | ceptis quibusdam operose collecta, adhibitisq; ratione & ex- | perientia, quanta potuit esse, methodo accura- | tâ explicata, & In integrum corpus redacta. | Accesserunt | Tractatus nonnulli Physici Chymici, item methodicè ab eodem autore explicati, | quorum titulos versa pagella exhibet. | Sunt etiam in Chymicis eiusdem D. Libavii epistolis, iam antè im- | pressis, multa, huic operi lucem allatura. | [ornament] | Cum gratia & Priuilegio Caesareo speciali ad decennium. | Francofvrti | Excudebat Iohannes Saurius, impensis Petri Kopffij, | [rule] | M. D. XCVII.

4°: a-III<sup>4</sup> mmm<sup>3</sup> (\$3 signed; ss3 as s3, mmm3 as mm3); 231ℓ.; [18], [1]-424, [20] p. (p. 270 as 370).

CONTENTS: a1r, Title page.; a1v, "Tractatus Physici



D.O.M.A. ALCHEMIA, 1597

Chymici Alchemiae adiecti.”; a2r, Dedictory epistle.; a2v-b2v, “Praefatio Ad Lectorem.”; b3r, “Tabvla Libri Secvndi Alchemiae.”; b3v, “Phalevci ...”; b4r-c1v, “Avtores qvos in hoc opera sum secutus.”; [1]-84, “Alchemiae Liber Primvs de Encheria.”; 85-241, “Liber Secvndvs Alchemiae. Tractatvs Primvs de Magisteriis.”; 242-408, “Libri Secvndi Alchemiae. Tractatvs Secvndvs de Extractis.”; 409-424, “Libri Secvndi Alchemiae. Tractatvs Tertivs de Speciebv Chymicis Compositis.”; 3k2r-3m3r, “Index Rervm Dvobvs Alchemiae Libris Contentarvm.”; 3m3v, Printer’s device followed by the colophon: “Francofvrti, | Excudebat Iohannes Saurius, im- | pensis Petri Kopffij, Anno | [rule] | M. D. XCVII.”

RARE. Called the first systematic and practical textbook of chemistry, the 1595 edition listed by some bibliographers is a ghost. Within this work Libavius displays his full command of both the theoretical and practical sides of chemistry. Included in the text are frequent references to analysis of mineralogical examples. The author also provides an amazingly detailed account for setting up a complete chemical institute: a main laboratory, an analytical laboratory and a private laboratory for the director. There was also a chemical store, a preparation room, a crystallizing room, store rooms, , cellars, a wine cellar, a wood store, a room for the assistants, and a steam bath. Upper stories of the facility contained living quarters, study rooms and a well stocked library.

Sometimes bound with the *Alchemia* is the author’s commentary on alchemy. It has the title: *D.O.M.A. Commentationum Metallicarum Libri Quatuor de Natura Metallorum, Mercurio Philosopho-*

*rum, Azotho, et Lapide seu tinctura physicorum con-*  
*ficienda è Rerum Natura, Experientia, et Autorum*  
*præstantium fide.* (Francofurti, 1597; 4°: [8], 392 p.).

REFERENCES: Adams, *Cambridge Books*, 1967: L-634. • BL. • Bolton, *Bibliography of Chemistry*, 1893: 621-2. • Cole, *Chemical Literature*, 1988: no. 827. • Dana’s 7th (Bibliography): 76. • DSB: 8, 309-12. • Duveen, *Bibliotheca Alchemica et Chemica*, 1965: p. 355-6. • Ferguson, *Bibliotheca Chemica*, 1906: 2, 31. • Kopp, *Geschichte der Chemie*, 1843-7: 1, 115 [wrong year]. • Neu, *Chemical, Medical & Pharmaceutical Books*, 1965: no. 2385. • NUC: 331, 433-4 [NL 335077]. • Partington, *History of Chemistry*, 1961-70: 2, 247-8. • Roller & Goodman, *Catalogue*, 1976: 2, 107. • Wellcome Catalog (Books): 1, no. 3371.

3042. 2nd edition, 1606: [Contained wArcanovm Natvralivm | cupidi, ea absque inuolucris elementarium & | anigmaticarum sordium, intueri | gaudent. | Praemissa Defensione Artis: | opposita censurae Parisianae: | Cum Gratia & Priuilegio Caesareo speciali ad decennium. | [Bottom compartment:] Francofvrti, | Excudebat Joannes Saurius, impensis Petri Kopffij. | [rule] | Anno M. D. VI.

3 parts in one volume. [Part 1] 2° (in 6s): A-T<sup>6</sup> (\$4 signed); 114ℓ.; [20], 1-196, [12] p. [Part 2] 2° (in 6s): Aa-Kkk<sup>6</sup> Lll-Mmm<sup>4</sup> (\$4 signed); 206ℓ.; [10], 1-402 p. 134 as ‘334’, 278 as ‘178,’ and 364 as ‘366’. [Part 3] 2° (in 6s): Aa-Rr<sup>6</sup> (\$4 signed); 102ℓ.; [1]-192, [12] p. 92 as ‘102’ and 93 as ‘103.’ Finely engraved title to the first part, separate title pages for parts 2 & 3 and numerous woodcut diagrams in the texts (several full-page).

SCARCE. An important chemical text by one of the founders of chemical analysis. Second edition of the first modern chemical textbook, which is generally considered one of the most beautiful of the seventeenth century because of its heavy use of illustrations. It contains over 200 designs and pictures of various sorts of chemical glassware, vessels, apparatuses and furnaces, as well as detailed architectural plans for building the chemical institute first outlined in the first edition.

”Libavius’s *Alchemia* is an excellent practical textbook in the sense that the author shows a full mastery of his sources and a clear, concise and sensible style, entirely different from the rambling, bombastic, and obscure verbosity of Paracelsus or the alchemical authors.” -Partington, II, p. 253 -(& see pages 247-67 for a detailed account of the contents of this book).

Sometimes bound with *D.O.M.A. Syntagma Selectorum undiquaque et perspicue traditorum Alchymiae Arcanorum*. Frankfurt, N. Hoffmann for P. Kopff, 1611. 2°: [12], 480, [8] p. Finely engraved title & numerous woodcut diagrams in the text. This is a rare supplement to and a further commentary on the *Alchemia*.

REFERENCES: BL. • Cole, *Chemical Literature*, 1988: no. 828. • Duveen, *Bibliotheca Alchemica et Chemica*, 1965: p. 357. • NUC: 331, 433-4 [NL 0335079]. • Wellcome Catalog (Books): 1, no. 3776.

### 3043. — Latin, 1599-1601.

D.O.M.A. | Singvlariarivm | Andreæ Libavii | Med. Phys. Rotemb. | Pars Prima. | In Qva De Abstrvsioribvs, | difficilioribusq; nonnullis in Philosophia, Me- | diciva, Chymia, &c. quæstioni- | bus, vtpote | De | Metallorvm, Svccinive | natura: carne fossili, vt credita est, de gestatione ca- | codæmonvm; veneno, aliisque rarioribus, | quæ versa indicat pagina, pluri- | mis accuratè diffe- | ritur. | [ornament] | Francofvrti, | Impressa typis Ioannis Saurii, impensis | Petri Kopffij. | [rule] | M. D. XCIX.



SINGULARIARIUM LIBER IV, 1599

4 parts. [Part 1: 1599] 8°: A-Z<sup>8</sup> a<sup>4</sup>; 188ℓ.; 375 p.; [Part 2: 1599] 8°: Aa-Kkk<sup>8</sup> (Kkk<sup>7</sup> & Kkk<sup>8</sup> blank); 262ℓ.; 324 (i.e., 524) p.; [Part 3: 1601] 8°: 2015 (i.e., 1114), [4] p.; [Part 4: 1601] 8°: 704, [16] p., one folding woodcut plate. Printer's device on dach of the title pages, head and tail pieces, and woodcuts initials.

VERY RARE, especially in complete sets. This series of authoritative essays on a wide range of subjects probably reproduce Libavius' lectures and may have been used as a text book in his classes. Included is a great deal of practical and speculative information on the mineral wealth of the earth: the nature and transmutation of metals, amber, fossil teeth, asphalt, bitumen, naptha, petroleum, coal, turf, and belemnites. Throughout Libarvius includes references to medicinal, alchemical and chemical properties. Also described in this compendium are Paracelsus' legacy, the flight of witches, posions, manna and honey, astrology, comets, the phases of the moon, silk and silkworms, mineral waters, frogs, toads, and other diverse matters.

REFERENCES: Adams, *Cambridge Books*, 1967: L-641. • BL. • BM/STC German: 497. • Caillet, *Manuel*, 1912: no. 6662. • Duveen, *Bibliotheca Alchemica et Chemica*, 1965: p. 356 [parts I & II]. • Ferchl: 313. • Ferguson, *Bibliotheca Chemica*, 1906: 2, 34n. • Jonathan Hill, Bookseller: cat. 64 (1996), no. 89. • LKG: III 16. • Mellon, *Alchemy and the Occult*, 1968-77: no. 54 [parts I & II]. • Neu, *Chemical, Medical & Pharmaceutical Books*, 1965: no. 2341. • NUC: 331, 433-4 [NL 0335106]. • Partington, *History of Chemistry*, 1961-70: 2, 246-7. • VD16: [no copy listed].

LICETI, Fortunio. (BORN: Rapallo, Genova province,

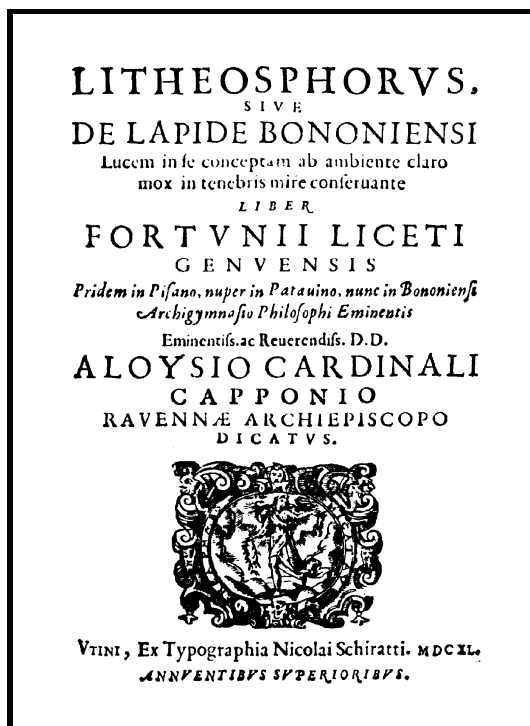


LICETI

Italy, 3 October 1577; DIED: Padua, Italy, 17 May 1657)  
*Italian physician.*

Liceti was first a professor of logic and then aristotelian physics at the University of Pisa. In 1609 he was appointed professor extraordinary and in 1622 professor ordinary of philosophy at the University of Padua. He accepted in 1637 a position at Bologna, then in 1645 he returned to Padua as professor of medicine.

REFERENCES: ABI: I 566, 367-429; II 327, 127. • Jöcher, *Gelehrten-Lexikon*, 1750-51. • Mazzetti, *Repertorio di Tutti i Professori*, 1848. • *Nouvelle Biographie Générale* (Hoefler). • Poggendorff: 1, cols. 1451-2. • WBI.



LITHEOSPHORVS, 1640

**3044. — Latin, 1640.**

Litheosphorvs, | Sive | De Lapide Bononiensi | Lucem in se conceptam ab ambiente claro | mox in tenebris mire conseruante | Liber | Fortvnii Liceti | Genvensis | Pridem in Pisano, nuper in Patauino, nunc in Bononiense | Archigymnasio Philosophi Eminentis | Eminentiss.ac Reuerendiss. D.D. | Aloysio Cardinali | Capponio | Ravennæ Archiepiscopo | Dicitvs. | [ornament] | Vtini, Ex Typographia Nicolai Schiratti. MDCXL. | Annventibvs Svperioribvs.

4°: †<sup>4</sup> A-Mm<sup>4</sup>; 142ℓ.; [8], 280 p., one plate (portrait). Ornamental initials.

RARE. A work on the phosphorescent stone of Bologna. Kopp says that the first chemical preparation known to show phosphorescence was a paste made from a barite found near Bologna, and that it was described in this book. This is the most comprehensive 17th century work on the subject, and at the same time it is the least scientific approach. In the 55 chapters there is a detailed account of the various names by which the Bolognian stone was known, its discovery, the places where it occurred, and an attempt at explanation of its luminescence.

REFERENCES: Duveen, *Bibliotheca Alchemica et Chemica*, 1965: p. 358. • Gatterer, *Mineralogischen Literatur*, 1798-9: 2, 13. • Harvey, *History of Luminescence*, 1957: p. 311-2. • Hoover Collection: no. 537. • Kopp, *Geschichte der Chemie*, 1843-7: 3, p. 327. • LKG: XVI 111. • NUC: [no copy listed].

**LICHTENSTEIN, Anton August Heinrich.** (BORN: Helmstädt, Germany, 25 August 1753; DIED: Helmstädt, Germany, 16 February 1816) *German theologian & naturalist*.

Lichtenstein studied oriental culture, theology, philosophy, physics and natural history in Göttingen, Leipzig and Helmstadt. In 1775, he was appointed rector of the Stadtschule in Helmstadt. A few years later he became rector at the Johanneum in Hamburg. In 1794, he also took on the role of city librarian. In 1799, Lichtenstein was appointed ordinary professor of theology at the city's University. He retired in 1810.

REFERENCES: DBA: I 761, 420-440; 1431, 39-44. • Hamberger & Meusel, *Gelehrte Teutschland*, 1796-1834. • Jöcher, *Gelehrten-Lexikon, Supplement*. • WBI.

**3045. — German, 1793 [Sale catalog].**

Catalogus rerum naturalium rarissimarum Hamburgi, ... auctionis lege distrahendarum. Sectio prima continens mammalia et aves (-secunda continens conchylia, item mineralia, -tertia continens insecta). Verzeichniss von höchstseltenen ... Naturalien, etc. [Being a catalogue of the Holthuysen collection.] Hamburg, [1793-96.]

3 parts.

VERY SCARCE. Sale of a large natural history cabinet. This title cataloged the shells and minerals. Lichtenstein together with Peter Hinrich Packischefsky also wrote the catalog for a further sale of zoological specimens: *Catalogus musei zoologici*

*ditissimi Hamburgi, d. 16. Majus 1797. auctionis lege distrahendi. Continens insecta. Verzeichniss von höchstseltenen ... Naturalien ... welche ... öffentlich verkauft werden sollen, durch ... Peter Hinrich Packischefsky, etc.* Hamburg, [1797.] 8°: 156 p. [BL: B.677.(7.)].

In addition, a collection of insects was sold in 1800: Schneider, D.H., *Verzeichniss einer Parthei Insekten (aus dem Holthuysenschen Kabinette) welche am 6ten März 1800 ... verkauft werden sollen.* [Stralsund, 1800; BL: B.460.(4.)].

REFERENCES: BL: [955.a.35.]. • Wilson, *History of Mineral Collecting*, 1994: 176.

**LIEBAU, Andreas.**

See: Libavius (libau), Andreas.

**LIEBENER, Leonhard.****3046. — German, 1852.**

Die | Mineralien | Tirols | nach ihrem eigenthümlichen Vorkommen in den | verschiedenen Fundorten beschrieben | von | Leonhard Liebener, | [...2 lines of titles and memberships...] | und | Johann Vorhauser, | k.k. Bau-Inspector. | [ornate rule] | Innsbruck. | Im Verlage der Wagner'schen Buchhandlung. | 1852.

8°: xii, [2], 303 p. PAGE SIZE: 170 x 110 mm.

RARE. A topographical mineralogy of the region of Tirol of Austria. Listed in alphabetical order, the mineral species are described including brief information on the properties and complete locality lists in the Tirol region.

Supplement, 1866: *Nachtrag zu den Mineralien Tirols*. Innsbruck, Wagner, 1866. 8°: 33 p.

REFERENCES: NUC.

**LIEBISCH, Theodor.** (BORN: Breslau, Germany, 29 April 1852; DIED: Berlin, Germany, 9 February 1922) *German petrologist & mineralogist*.

Liebisch graduated from the University of Breslau with a petrographical dissertation in 1874. He became assistant to Gerhard vom Rath at Bonn, and afterwards curator of the Mineralogical Museum of the University of Berlin. Later, Liebisch was appointed successively professor of mineralogy and crystallography at Breslau (1880), Greifswald (1883), Königsberg (1884), Göttingen (1887) and Berlin (1908), retiring in 1921. From 1885 to 1921, he was one of the editors of the important *Neues Jahrbuch für Mineralogie, Geologie und Paläontologie*.

REFERENCES: *Centralblatt für Mineralogie*: 1922, 417-22, portrait. • DBA: I 763, 209; II 812, 165-178. • *Mineralogical Magazine*: 20 (1924), 264, portrait [by L.J. Spencer]. • *Neues Jahrbuch für Mineralogie, Geologie und Paläontologie*: 48 (1928) [Liebisch memorial volume]. • Poggendorff: 4, 886-7 & 5, 743-4. • Sarjeant, *Geologists*, 1980: 3, 1567. • WBI.

**3047. — German, 1881.**

Geometrische | Krystallographie | Von | Dr. Th. Liebisch, | A.Ö. Professor Der Mineralogie An Der Universität Breslau. | [rule] | Mit 493 Holzschnitten. | [tapered rule] | Leipzig, | Verlag Von Wilhelm Engelmann. | 1881.

8°: [i]-xii, [1]-464 p., diagrams.

CONTENTS: [i-ii], Half title page, "Th. Liebisch, | Geometrische Krystallographie," verso blank.; [iii-iv], Title page, verso "Das Uebersetzungsrecht vorbehalten.;" [v], Dedication to Professor Websky.; [vi], Blank.; [vii]-viii, "Vorwort."—signed Th. Liebisch, 17 August 1881.; [ix]-xii, "Inhaltsverzeichnis.;" [1]-460, Text.; [461]-464, "Sachen-Register."

VERY SCARCE. A textbook describing the geometric aspects of crystallography. It covers each of the crystallographical systems, explaining the techniques used for creating projections, measuring crystals, etc.

REFERENCES: BL.

### 3048. — German, 1891.

Physikalische | Krystallographie | [rule] | Von | Dr. Th. Liebisch, | O.Ö. Professor Der Mineralogie An Der Universität Göttingen. | [rule] | Mit 298 Abbildungen Im Text Und Neun Tafeln. | [ornament] | Leipzig, | Verlag Von Veit & Comp. | 1891.

8°: [i]-viii, [1]-614, [2] p., 9 plates (Taf. I-IX; one colored).

CONTENTS: [i-ii], Title page, verso "Druck von Metzger & Wittig in Leipzig.;" [iii]-iv, "Vorwort.;" [v]-viii, "Inhalt.;" [1]-600, Text.; [601]-603, "Erklärung der Tafeln.;" [604]-607, "Autoren-Register.;" [608]-614, "Sach-Register.;" [2] pgs], Advertisements.; [At end], 9 plates.

VERY SCARCE. A comprehensive, well illustrated textbook of advanced crystallography written in the style of Groth's *Physikalische Krystallographie*. It is designed to provide a through description of the subject, with numerous citations to the literature, and can provide a study for the beginner to the advanced student, including discussions of crystallographic instruments. It includes an author index and many, many bibliographical references.

REFERENCES: BL. • *USGS Library Catalog*.

### 3049. — German, 1896.

Grundriss | Der | Physikalischen | Krystallographie. | Von | Dr. Theodor Liebisch, | O.Ö. Professor Der Mineralogie An Der Universität Göttingen. | Mit 898 Figuren Im Text. | [ornament] | Leipzig, | Verlag Von Veit & Comp. | 1896.

8°: [i]-viii, [1]-506 p., illus., diagrams.

CONTENTS: [i-ii], Title page, verso "Druck von Metzger & Wittig, Leipzig.;" [iii]-iv, "Vorwort.;" [v]-viii, "Inhalt.;" [1]-500, Text.; [501]-506, "Sach-Register."

VERY SCARCE. A textbook describing various aspects of crystallography, including the crystal systems, and physical properties like thermal, electrical, magnetism, dielectric, optical, hardness, pyroelectricity, etc.

REFERENCES: BL. • *USGS Library Catalog*.

### 3050. — German, 1901.

Die Synthese der Mineralien und Gesteine. Festrede im Namen der Georg-Augusts-Universität zur akademischen Preisverteilung am V. Juni MDCC-

CCI gehalten von Theodor Liebisch. Göttingen, Dieterich, 1901.

8°: 28 p.

VERY SCARCE. Discussion of the synthesis of minerals and rocks.

**LIEBKNECHT, Johann Georg.** (BORN: Schwartzbach, Sachsen-Meiningen, Thüringen, Germany, 23 April 1679; DIED: 1749) *German theologian*.

Liebknecht was professor of theology and mathematics at the University of Giessen.

REFERENCES: DBA: I 763, 210-274; II 812, 179-180. • Hirsching, *Historisch-literarisches Handbuch*, 1794-1815. • Jöcher, *Gelehrten-Lexikon*, 1750-51. • Poggendorff: 1, cols. 1460-1. • WBI.

### 3051. — Latin, 1714.

Discursus de Diluvio maximo, occasione inventi nuper in Comitatu Laubacensi, & ex mira metamorphosi in mineram ferri mutati ligni, cum observationibus geodaeticis, aeroscopicis, hydrographicis & aliis praesertim quo ad terram sigillatam huius loci & limum nova modo in verum ferrum mutatum &c. curatius institutus & publicatus. Cui accessit Io. Gothofredi Geilfusii De Terra Sigillata Laubacensi erudita tractatio Latinitate donata. Giessae & Francofurti, Io. Ott. Meyer & Sam. Tob. Hocker, 1714.

8°: [22], 388 p., 3 engraved plates. Title in red and black.

RARE. Describes the geology, mineralogy, metallurgy and paleontology of the territory of Laubach in Hesse, near the town of Giessen, where the author taught. At the end is a short treatise by on the nature and curative values of the "Terra sigillata," a deposit of earth in the Laubach territory by the physician Johann Gottfried Geilfus. The plates depict fossils and a map of the region.

REFERENCES: BL: [954.a.16.]. • LKG: XIII 44 & XVII 158.

### 3052. — Latin, 1730 [First edition].

Io. Georgi Liebknecht, | [...5 lines of titles and memberships...] | Hassiae Svbtterraneae | Specimen | Clarissima Testimonia | Dilvvi Universalis | Heic Et In Locis Vicinioribus Occurrentia, | Ex Triplici Regno, | Animalium, Vegetabilium et Mineralium | Petita, Figurisque Aeneis Exposita, | Imo | Omnis Antiquitatis | Exempla Certissima Exhibens. | [rule] | Occasione | Arboris In Mineram Ferri Mutatae, | Quae Variis Observationibus, Et Nova Ferrum | Ex Limo Coqvendi Methodo Illustratur. | [rule] | Cui Accedit | [The next 5 lines in two columns separated by a double vertical rule:] I. Cel. D. Io. Geilfusii | rariss. de Terra Sigillata Laubacensi tractatio latinitate recens donata. | [double vertical rule] II. De Serratis Et Bituminosis Nymmis dissertatio | epistolica, quae antiqua Wet- | teravia



## LINCK

illvstratr ad lo- | cvm Tac. de M.G. Cap. V. | [double rule] | Giessae Et Francofvrti, | Apvd Eberh. Henr. Lammers. M DCC XXX.

4°: [22], 490, [22] p., frontispiece, 14 plates (numb. I-XIV), one engraved map.

RARE. An interesting early monograph on the paleontology and archeology of the provinces of Hesse in Germany. The plates show various fossils and other objects found in the earth of the area, while the map gives an overview of the location of the various towns in the region.

REFERENCES: BL: [725.f.8.]. • *Freilich Sale Catalog*: no. 355. • LKG: XIV 125. • Ward & Carozzi, *Geology Emerging*, 1984: no. 1386. • Zittel, *Geschichte der Geologie*, 1899: p. 24 & 25.

**3053. 2nd edition, 1759:** Io. Georgi Liebknecht, | [...5 lines of titles and memberships...] | Hassiae Svbtterraneae | Specimen | Clarissima Testimonia | Dilvii Vniversali | Heic Et In Locis Vicinioribvs Occurentia, | Ex Triplici Regno, | Animal, Vegetabili et Mineralia | Petita, Figvrisqve Aeneis Exposita, | Imo | Omnis Antiquitatis | Exempla Certissima Exhibens. | [rule] | Occasione | Arboris In Mineram Ferri Mvtatae, | Qvae Variis Observationibvs, Et Nova Ferrum | Ex Limo Coqvendi Methodo Illvstratr. | [rule] | Cvi Accedit | [The next 5 lines in two columns separated by an ornate vertical rule:] I. Cel. D. Io. Geilfvsi | rariss. De Terra Sigil- | lata Lavbacensi Tracta- | tio Latinitate Recens Do- | nata. | [vertical rule] | II. De Serratis Et Bi- | gatis Nvmis Dissertatio | Epistolica, Qva Antiqva | Wetteravia Illvstratr Ad | Locvm Tac. De M.G. Cap. V. | [ornate rule] | Francofvrti Ad Moenum, | Apud Johannem Joachimum Kesslerum, | M DCC LIX.

4°: [22], 490, [22] p., frontispiece, 14 plates and one engraved map.

RARE. A reissue of the 1730 first edition sheets with a new title page (BL).

REFERENCES: BL: [34.a.13.]. • Hoover Collection: no. 538.

**LINCK, Gottlob Eduard.** (BORN: Oetisheim, Württemberg, Germany, 20 February 1858; DIED: Jena, Germany?, 1947) *German crystallographer*.

From 1879 to 1883, Linck studied in Stuttgart, Strasbourg, and Tübingen. In 1883, he received his Ph.D. from the University of Strasbourg. In Strasbourg, he became assistant for mineralogy (1885-94), professor extraordinary (1894) and from 1894, professor ordinary in mineralogy and geology at the University of Jena.

REFERENCES: DBA: II G 8, 55-56; 815, 14-23. • *ISIS*, 1913-65: 2, 92. • NDB: 14, 569-70 [by E. Preuß]. • Poggendorff: 4, 889, 5, 747 & 6, ?? . • WBI.

**3054. — German, 1896** [First edition].

Grundriss | der | Krystallographie | für | Studirende und zum Selbstunterricht | von Dr. Gottlob Linck, | o.ö. Professor der Mineralogie and der Universität Jena. | Mit 482 Originalfiguren im Text und 2 farbigen, lithographirten Tafeln. | [ornate rule] | Jena, | Verlag von Gustav Fischer | 1896.

8°: vi, 252, [3] p., 2 color plates, illus.

VERY SCARCE. Covers crystals, symmetry, crystallization, the crystal systems, physics of crystals, composition and crystals. An appendix describes the

use of the microscope. Fine crystal drawings, original to this work.

REFERENCES: Dana's 7th (Bibliography): 76.

**3055. 2nd edition, 1908:** Grundriss der Kristallographie für Studierende und zum Selbstunterricht von Dr. Gottlob Linck. Zweite umgearb. Aufl. Jena, 1908.

8°: vi, 254 p., [2] p., 3 colored plats, illus. VERY SCARCE.

REFERENCES: NUC. • *USGS Library Catalog*.

**3056. 3rd edition, 1913:** Grundriss der Kristallographie für Studierende und zum Selbstunterricht von Dr. Gottlob Linck. 3. verb. Aufl. mit 631 Originalfiguren im Text und 3 farbigen, lithographischen Tafeln. Jena, 1913.

8°: viii, 272 p., 3 color plates, illus. VERY SCARCE.

REFERENCES: NUC. • *USGS Library Catalog*.

**3057. 4th edition, 1920:** Grundriss | der | Krystallographie | Für Studirende und zum Selbstunterricht | Von | Dr. Gottlob Linck, | o.ö. Professor der Mineralogie und Geologie and der Universität Jena. | Vierte verbesserte Auflage | Mit 486 Originalfiguren im Text | und 3 farbigen, lithographischen Tafeln | [ornament] | Jena | Verlag von Gustav Fischer | 1920.

8°: VERY SCARCE.

REFERENCES: NUC. • *USGS Library Catalog*.

**3058. — German, 1906.**

Goethes Verhältnis zur Mineralogie und Geognosie Rede gehalten zur Feier der akademischen Preisverteilung am 16. Juni 1906 von Gottlob Eduard Linck. Jena, G. Fischer, 1906.

48 p., [3] leaves of plates : facsim., ports. "Literaturverzeichnis": p. [43]-48.

VERY SCARCE. Goethe, Johann Wolfgang von, 1749-1832 – Knowledge – Mineralogy.

REFERENCES: NUC. • *USGS Library Catalog*.



LINCK

**LINCK, Johann Heinrich.** (BORN: 1674; DIED: 1734) *German apothecary*.

REFERENCES: ADB. • DBA: I 766, 293-295; II 815, 37. • Hamberger & Meusel, *Gelehrte Teutschland*, 1796-1834. • Jöcher, *Gelehrten-Lexikon*, 1750-51. • NDB. • Poggendorff: 1, col. 1464. • WBI.

**3059. — Latin, 1718.**

Viro obilissimo et eruditissimo Jo. Woodward ... S.P.D. Joh. Henricus Linck ... [Epistola] de Lapide in Montibus Thuringiae prope Sulam Reperto. Leipzig, 1718.

4°: 2*l.*; [4] p. A letter addressed to John Woodward describing the stones and minerals found in Thuringen, Germany. RARE.

REFERENCES: LKG: XVII 105.

**LINCK, Johann Heinrich (the Younger).****3060. — German, 1783-7** [Collection catalog].

Index | Mvsaei Linckiani, | oder | kurzes systematisches Verzeichniß | der vornehmsten Stücke | der | Linckischen | Naturaliensammlung | zu Leipzig. | [ornament] | Erster [-Dritter] Theil. | [rule] | Leipzig, | in der Beygangschen Buchhandlung, 1783.

3 parts. [Part 1: 1783] 8°: xxxvi, 297 p. [Part 2: 1786] 8°: xxiv, 328 p. [Part 3: 1787] 8°: viii, 260 p. RARE.

REFERENCES: *Allgemeine Literatur-Zeitung*: 1787 10 & 1788, pt. 1, 257. • BL: [956.f.30-32.]. • Dittmar, V. and G. Lehrberger, eds., *Der Sprudel macht den Stein — Schätze aus Karlsbad*. Katalog zur gleichnamigen Ausstellung im Egerland-Museum Marktredwitz von 23. Oktober 2004 bis 1. Mai 2005. Berlin, 2004. [1]-528 p., num. illus. [Extensive catalog of an exhibit of materials related to the Karlsbad caverns of Germany.]: p. 98-100. • Freiesleben, *Sächsische Mineralien-Verzeichnisse*, 1828: no. 43. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 267. • Seifert, A., *Die Apotheker-Familie Linck in Leipzig und ihr Naturalien- und Kunstkabinett (1670-1840)*. Mittenwald, [1937]. 76 p.

**LINCK, Johann Wilhelm.** (BORN: 1760; DIED: 1805) *German physician.*

REFERENCES: DBA: I 766, 299-300. • Poggendorff: 1, col. 1464. • WBI.

**3061. — German, 1796.**

Praktische Mineralogie für angehende Ärzte, Apotheker und Künstler. Wein und Leipzig, 1796.

8°: Part one only published. VERY SCARCE.

REFERENCES: BL: [974.b.20.]. • LKG: XII 210.

**LINDEN, Diederick Wessel.** *English physician.*

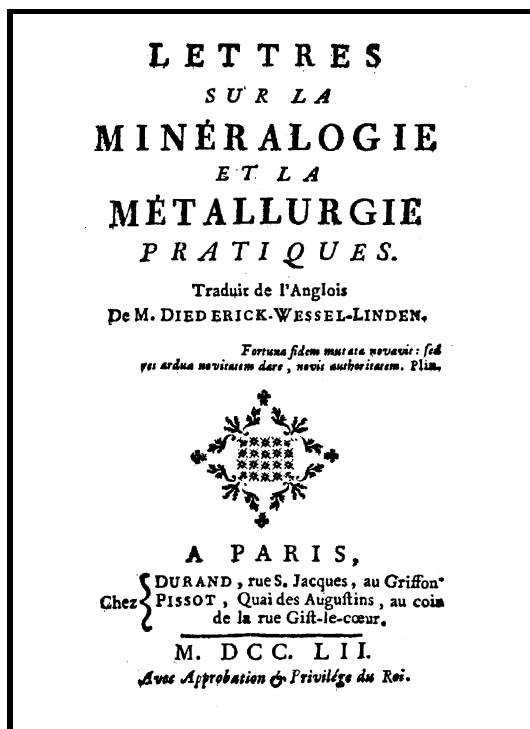
REFERENCES: BBA: I 688, 407. • DBA: I 767, 284. • Jöcher, *Gelehrten-Lexikon, Supplement*. • WBI.

**3062. — English, 1750.**

Three letters on mining and smelting, in which a method is laid down, whereby these useful sciences may be greatly improved. To which is added, a fourth letter, setting fourth, a discovery of an easy method to secure ships bottoms from worms. Written by Diederick Wessel Linden ... London, Printed for G. Keith, 1750.

8°: [4], 96 p.

VERY SCARCE. Text consists of 4 letters total. The first three concern the subjects of metallurgy and mineralogy. The first provides necessary information to become a practioner in the art. The 2nd gives an



## LETTRES SUR LA MINÉRALOGIE

overview of the current state of metallurgical practices, while the 3rd describes how to create a a system raisonné of mineralogy and metallurgy. The 4th, describes a method to prevent the worming of ship hulls.

REFERENCES: LKG: VI 24.

**3063. French transl., 1752:** Lettres | Sur La | Minéralogie | Et La | Métallurgie | Pratiques. | Traduit de l'Anglois | Par M. Diderick Wessel-Linden. | Fortune sidem mut atat novavit: sed | ves ardua nevitatem dare, novis auctoritatem. Plin. | [ornament] | A Paris, | [Next 3 lines braced on the left by, "Chez {"] Durand, rue S. Jacques, au Griffon | Pissot, Quai des Augustins, au coin | de la rue Gift-le-cœur. | [rule] | M. DCC. LII. | Avec Approbation & Privilège du Roi.

8°: \*1 a<sup>8</sup> A-M<sup>8</sup> N<sup>5</sup>; 111*l.*; [20], [1]-201, [1] p. PAGE SIZE: 160 x 100 mm.

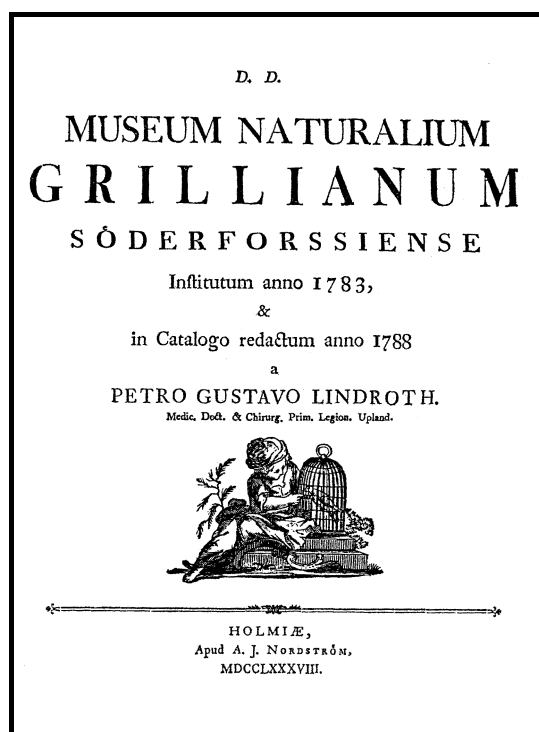
CONTENTS: [2 pgs], Title page, verso blank.; [2 pgs], "Lettre | Du Libraire Anglois, A Très-Honorable Seigneur | Le Comte | D'Halifax."; [15 pgs], "Avertissement."; [1 pg], Blank.; [1]-201, Text. [1 pg], "Approbation."

VERY SCARCE. A standard and faithful translation, with little or no additional material.

REFERENCES: Duveen, *Bibliotheca Alchemica et Chemica*, 1965: p. 362. • LKG: VI 25a.

**LINDROTH, Petro Gustavo.****3064. — Swedish, 1788** [Collection catalog].

D.D. | Museum Naturalium | Grillianum | Söderforssiense | Institutum anno 1783, | & | in Catalogo redactum anno 1788 | a | Petro Gustavo Lindroth. | Medic. Doct. & Chirurg. Prim. Legion. Upland. | [ornament] | [ornate rule] | Holmiæ, | Apud A.J. Nordström, | MDCCLXXXVIII.



MUSEUM NATURALIUM GRILLIANUM, 1788

Large 4°: A-B<sup>4</sup> C<sup>3</sup>; 11ℓ.; [1]-21, [1] p.

CONTENTS: [1-2], Title page, verso blank.; 3-21, Text.; [1 pg], Blank.

RARE. Catalog listing the contents of Adolph Ulrik Grill's [see note below] natural history collection. Written in 1783 and published in 1788, the text is in Latin, Swedish, French and English and consists of a numbered listing providing first the name in Latin, followed by the equivalents in the other languages. The collection contained stuffed quadrupeds, birds, shells, earthen, stones, and minerals, etc.

**Adolph Ulrik Grill.** (BORN: Stockholm, Sweden, 19 March 1752; DIED: Stockholm, Sweden, 1 October 1797) *Swedish naturalist.* Grill studied natural history subjects at the University of Söderfors. He possessed a large cabinet of natural history objects including about a hundred mammals, sixty birds, thirty fishes and lots of corals and petrifications. After having been offered for sale abroad, these collections were donated in 1828 to the Vetenskapsakademien in Stockholm. Grill was a member of the Swedish Musical and Scientific societies.

REFERENCES: *Allgemeine Literatur-Zeitung*: 1789, pt. 1, 647. • BL: [B.310.(1.)]. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 281. • Murray, *Museums*, 1904: 2, 268. • Warmholtz, *Bibliotheca Sueo-Gothica*, 1782-1817. • Wilson, *History of Mineral Collecting*, 1994: 213. (Grill) SBA: Scandinavian Biographical Archive: B-093, 046-051. • *Svenskt Biografiskt Handlexikon*: 1, 403, portrait. • *Svenskt Biografiskt Lexikon*: 17, 288. • WBI. • Wilson, *History of Mineral Collecting*, 1994: 173.

**LINK, (Johann) Heinrich Friedrich.** (BORN: Hildesheim, German, 2 February 1767; DIED: Berlin, Germany, 1 January 1851) *German botanist.*

Son of a preacher, Link received his medical degree

from the University of Göttingen. He taught medical science at the University from 1790 to 1792. From 1792 until 1811, he was a professor at Rostock, from 1811 to 1815 at Breslau and from 1815 a professor of botany in Berlin.

REFERENCES: ADB: 18, 714-20. • DBA: I 769, 234-274. • DSB: 8, 373-4. • NDB: 14, 629. • Poggendorff: 1, cols. 1469-70. • Wagenitz, *Göttinger Biologen*, 1988: 111-2. • WBI.

### 3065. — German, 1749-1801.

Beiträge zur Naturgeschichte. Rostock und Leipzig, Stiller, 1794-1801.

2 parts. Theil 1, part 1: [8], 124, [2] p. Theil 1, part 2: [4], 126, [2] p. Theil 2: [4], 235 p.

RARE. A general examination of natural history, including a proposal for a generalized scheme of nature. The second portion gives a detailed description of a geological and mineralogical trip in southwestern Europe, particularly Portugal.

REFERENCES: LKG: VI 111.

### 3066. — German, 1790.

Versuch einer Anleitung zur geologischen Kenntniss der Mineralien. Göttingen, bey J.C. Dieterich, 1790.

8°: [16], 239 p. VERY SCARCE.

REFERENCES: *Allgemeine Deutsche Bibliothek*: 110, no. 2, 455 ["Recht gut"]. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 29. • LKG: XIII 184.

### 3067. — German, 1801.

Geologie und mineralogie Bemerkungen auf einer Reise durch das sudwestlichen Europa, besonders Portugal. Hosmoek, 1801.

8°: [4], 235 p. Published as the second part of the author's *Beiträge zur Naturgeschichte*. VERY SCARCE.

REFERENCES: LKG: XIV 733.



LINNAEUS

**LINNAEUS (Linné), Carl.** (BORN: Rashult, Province of Småland, Sweden, 23 May 1707; DIED: Uppsala, Sweden, 10 January 1778) *Swedish physician & botanist.*

Linnaeus was educated at the Universities of Lund and Uppsala, where he studied medicine. He became adunctus to Olaf Rudbeck, at the University of Uppsala in 1730. On a government sponsored expedition, he traveled 4,600 miles in Lapland and Upper Scandinavia, discovering 100 new species of plants. In 1732, he taught students how to assay ores. In 1738, he became naval physician in Stockholm. Appointed professor of medicine and botany at the University of Uppsala in 1741, Linnaeus became widely known as the greatest botanist of his time.

REFERENCES: Barr, *Index to Biographical Fragments*, 1973: 157. • *Biographiskt Lexicon*. • Cleavelly, *World Palaeontological Collections*, 1983: 186. • Drugulin, *Sechstausend Portraits*, 1863: nos. 3338-3383 & 6200. • DSB: 8, 374-8 [by S. Lindroth]. • *ISIS*, 1913-65: 2, 94-9. • Kalm, P., "Kalm som Student i Uppsala och Lärjunge till Linné åren, 1741-1747." *Föredrag ... den 27 maj, 1923 av Johan Markus Hulth. Svenska Linné-Sällskapet. Årsskrift, Årg. 7* (1924), 39-49. • Lambrecht & Quenstedt, *Catalogus*, 1938: 265. • Poggenorff: 1, col. 1470. • Sarjeant, *Geologists*, 1980: 3, 1574-87, Suppl. 1 (1986), 2, 594-8 & Suppl. 2 (1995), 2, 845-7 [other refs.]. • SBA: Scandinavian Biographical Archive: B-185, 139-241. • Schauman, G., "Ett minne af Linné och hans förhållande till Kalm," *Finsk Tidskrift för Vitterhet, Vetenskap, Konst och Politik*, 62 (Maj, 1907), Heft 5, 372-375. • Schmid, G., "Linné und Leysser," *Zeitschrift für Naturwissenschaften*, 88 (1928), no. 6, 191-266. • *Svenskt Biografiskt Handlexikon*: 2, 81-3, portrait. • *Svenskt Biografiskt Lexikon*: 23, 700-?? . • WBI. • *World Who's Who in Science*: 1049-50.

**3068. — Latin, 1735** [First edition].

Caroli Linnæi, sveci, | Doctoris Medicinæ. | Systema Naturæ, | sive | Regna Tria Naturæ | Systematice Proposita | per | Classes, Ordines, | Genera, & Species. | [double rule] | [...4 lines of quotation...] | [double rule] | Lugduni Batavorum, | Apud Theodorum Haak, MDCCXXXV. | [rule] | Ex Typographia | Joannis Wilhelmi de Groot. | [rule].

2°: 7ℓ.; [14] p. Consists of 7 separate leaves without signature, foliation or pagination. Text is printed on both sides except for the first and last leaves on which the verso is blank. PAGE SIZE: 540 x 416 mm.

CONTENTS: [2 pgs], Title page, verso blank.; [11 pgs], Text.; [1 pg], Blank.

**RARE.** One of the most famous and important books in the history of science, as well as one of the rarest. This first edition covered not only the animal and plant kingdoms but the mineral kingdom (*regnum lapideum*) as well. Although Linné would refine the system through extensive additions and alterations, its main principals would remain unchanged through the many subsequent editions. In creating a mineral classification, he attempted to duplicate what he had done for plants and animals. This method, which does not take chemical composition into account and inherently assumes organic propagation, is not suited to the inorganic products of nature, and the mineral system could never be as useful as his biological systems. Nevertheless, Linné and the principals of his mineralogical system, first outlined in this work, exerted a tremendous influence in mineralogical science.

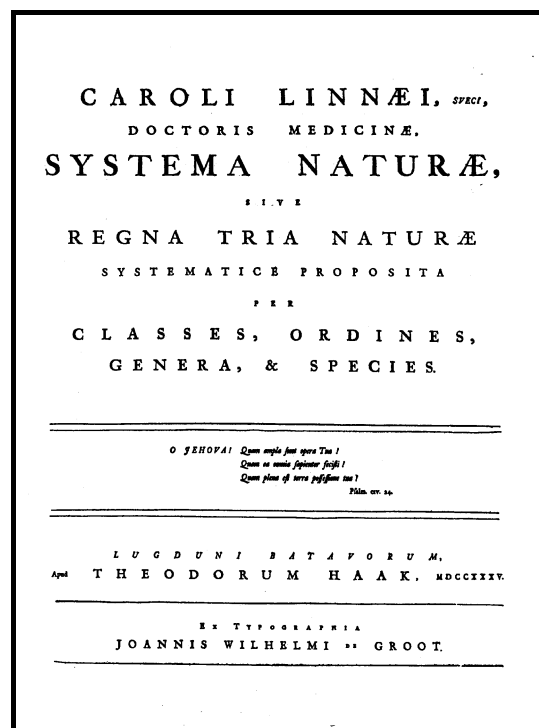
This first edition was printed at the request of Johann Friedrich Gronovius, one of the dutch admirers of the young Linné, for the "intention only to have a few copies ... to communicate it fully ... to the learned world" [see: Gronovius' letter to Sir Hans Sloane, reproduced in the Soulsby catalog of Linnaeus]. Hence the extreme rarity of an original.

Contains:

Observationes in Regna 3 naturæ.  
Caroli Linnæi Regnum Lapidum.  
Observationes in Regnum Lapidum.  
Clavis Systematis Sexualis.  
Caroli Linnæi Regnum Vegetabile.  
Observationes in Regnum Vegetabile.  
Observationes in Regnum Animale.  
Caroli Linnæi Regnum Animale.

The equivalent Swedish names are given in the Mineralogical portion only of the work.

The chief criticism of Linnaeus' mineralogical classification was that it took into account only external characteristics without any attention to their chemical composition. Nevertheless, his observations in this field as well as geology and paleontology were in advance of his time. For example, he correctly attributed the origin of fossils to be the petrified remains of formerly living creatures.



SYSTEMA NATURÆ, 1735

# LINNAEUS

A copy of this work, thought to be unique, was sold at Sotheby's on July 4, 1954. It appeared to be a proof copy, as it consisted of 12 leaves and was printed on only one side of the paper.

REFERENCES: Dana's 7th (Bibliography): 76. • Dibner, *Heralds of Science*, 1955: 27. • DSB: 8, 374-81 [by S. Lindroth]. • *Freilich Sale Catalog*: no. 357. • Horblit: nos. 68 & 68a. • Hulth, *Bibliographia Linnaeana*, 1907: I no. 1. • Lindroth, *Swedish Men of Science*, 1952: 102-3. • LKG: XII 78c. • PPM: *Printing and the Mind of Man*: no. 192. • Soulsby, *Catalogue of the Works of Linnaeus*, 1933-6: no. 39. • Stafleu & Cowan, *Taxonomic Literature*, 1976-88: 4709. • Wallerius, *Brevis Introductio*, 1779: 72.

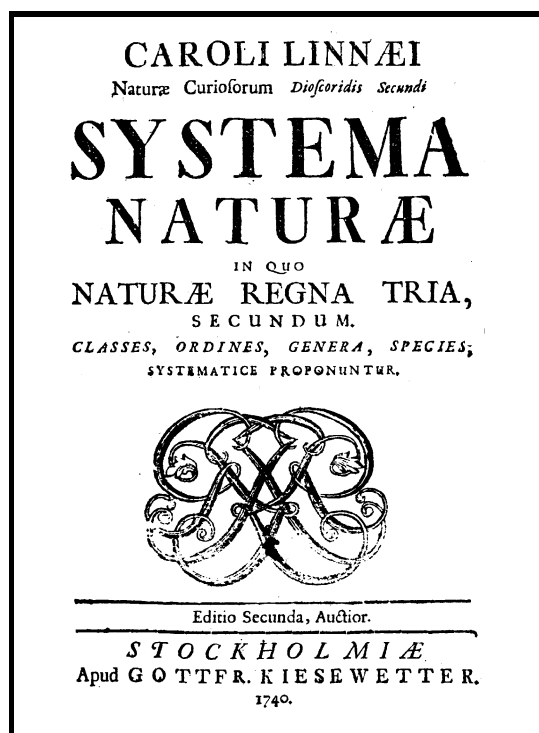
**3069. Facsimile reprint, 1907:** Ad Memoriam primi sui Praesidis ejusdemque e conditoribus suis unius Caroli Linnæi opus illud quo primum Systema Naturæ per tria Regna dispositæ explicavit Regia Academia Scientiarum Svecica biseculari natali auctoris denuo edidit. Holmiæ: Generalstabens Litografiska Anstalt, 1907.

2°: [2]ℓ., [7]ℓ., [1]ℓ., one plate, one portrait (Linnaeus in his Lapland dress).

PLATES: The plate is a preproduction of a well-known patintinb by M. Hoffman of "Carolus Linneaus. In his Lapland Dress."

VERY SCARCE. At the beginning is reproduced a letter dated December 19, 1735 from Johann Friedrich Gronovius to Sir Hans Sloane, which accompanied the copy of the *Systema* sent by him to the London Royal Academy. This is followed by the leaf 'Methodus, 1736' and the facsimile reprint. The plate engraved by G.D. Ehret and titled: 'Classes S. Literæ' was added to some copies.

REFERENCES: Soulsby, *Catalogue of the Works of Linnaeus*, 1933-6: no. 43.



SYSTEMA NATURÆ, 1740

**3070. 2nd edition, 1740:** Caroli Linnæi | Naturæ Curiosorum Dioscoridis Secunds | Systema | Naturæ | In Quo | Naturæ Regna | Tria, | Secundum. | Classes, Ordines, Genera, Species, | Systematice Proponuntur. | ["G.K." Mongraph] | [rule] | Editio Secunda, Auctior. | [rule] | Stockholmiae | Apud Gottfr. Kiesewetter. | 1740.

8°: π<sup>2</sup> A-K<sup>4</sup>; π<sup>2</sup> A-C<sup>4</sup>; 56ℓ.; [4], [1]-80; [4], 1-23, [1] p. PAGE SIZE: 198 x 124 mm.

CONTENTS: [Systema:] [2 pgs], Title page, verso blank.; [1 pg], Dedication to Carolo Gustavo Tessin, dated 20 May 1740.; [1 pg], "Lectori."; [1]-66, Text.; 67-79, "Observationes | In | Regna III. Naturæ."; 80, "O Jehova | ..."

[Fundementa Botanica:] [1 pg], Title page.; [2 pgs], Dedication.; [1 pg], "Præfactio."; 1-23, Text.; [1 pg], "Emendana | In Systemate Naturæ."

VERY SCARCE. Dedicated to Count C.G. Tessin, May 20, 1740. The text has undergone alteration. Three different title page issues of this edition with no priority are known to have been published: (1) As described here with the monogram of the publisher, "G.K." on the title page, (2) with a rectangular vignette showing a garden, and (3) with a blank in the space referred to. In the text, Linnaeus gives the Swedish names for the minerals listed.

Issued and bound together with Linnaeus': *Fundamenta Botanica. Editio secunda*. Stockholm, G. Kiesewetter, 1740, which occurs at the end.

REFERENCES: Hulth, *Bibliographia Linnaeana*, 1907: I, ?? . • LKG: XII 78c. • Soulsby, *Catalogue of the Works of Linnaeus*, 1933-6: no. 46.

**3071. 3rd edition, 1740:** Caroli Linnæi, Sveci, Doct. Medic., Systema Naturæ, sive Regna tria Naturæ systematice disposita per classes, ordines, genera et species.

Caroli Linnæi, aus Schweden, M.D., Natur-Systema, oder, Die in ordentlichem Zusammenhange vorgetragenen drey Reiche der Natur nach ihren Classen, Ordnungen, Geschlechtern und Arten, in die deutsche Sprache übersetzt und mit einer Vorrede herausgegeben von Johann Joachim Langen, &c. Halle: Gedurckt mit Gebauerischen Schriften, 1740.

8°: [7], 70, [1] p.

VERY SCARCE. A reprint of the first edition (Lugduni Batavorum, 1735), in which the order of the text is rearranged, accompanied by a German translation by Johann Joachim Langen [?????]. The translation is printed in parallel columns.

REFERENCES: *Commercium Litterarium*: 1740, 241-2. • LKG: XII 78c. • Soulsby, *Catalogue of the Works of Linnaeus*, 1933-6: no. 47.

**3072. 4th edition, 1744:** Caroli Linnæi ... Systema Naturæ, in quo proponuntur Naturæ Regna tria secundum classes, ordines, genera & species. Editio quarta ab auctore emendata & aucta [by Bernard de Jussieu]. Accesserunt nomina gallica. Paris: Sumptibus Michaelis Antonii David, typis Joannis Baptistæ Coignard, 1744.

8°: [2], 108 p., one plate.

VERY SCARCE. Reprint of the second original edition, with French names replacing the original Swedish. These were added by Bernard de Jussieu. The *Fundamenta Botanica* is reprinted as well.

The plate is labeled, "Clavis Classium."

This edition was seen through the press by Abraham Bäck [?????], then working in Paris.

REFERENCES: LKG: XII 78c. • Soulsby, *Catalogue of the Works of Linnaeus*, 1933-6: no. 48.

**3073. 5th edition, 1747:** Caroli Linnæi Naturæ curiosorum Dioscoridis secundi Systema Naturæ, Regna tria secundum classes, ordines genera, species systematice proponuntur. Recusum et Societatis, quæ impensas eontulit, usui accommodatum curante Mich. Gottl. Agnethlero ... Editio altera auctior et emendatior. Halæ Magdeburgicæ, 1747.

8°: 87, [1] p.

VERY SCARCE. Follows the second edition but with German names replacing the Swedish.

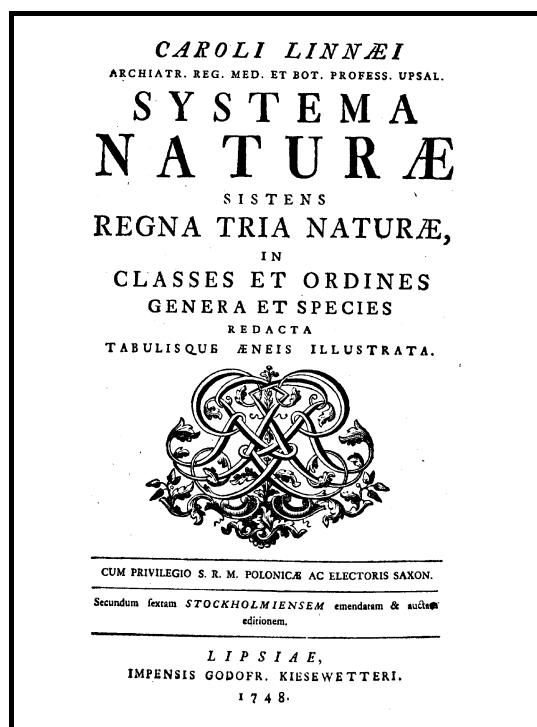
REFERENCES: Soulsby, *Catalogue of the Works of Linnaeus*, 1933-6: no. 50.

**3074. 7th edition, 1748:** Caroli Linnæi ... *Systema Naturæ sistens Regna tria Naturæ in classes et ordines genera et species redacta ... Secundum sextam Stockholmiensem emendatam & auctam editionem*. Lipsiæ: Impensis Godofr. Kiesewetteri, 1748.

8°: [12], 224, [30] p., 8 plates, one portrait.

VERY SCARCE. Dedicated to Count C.G. Tessin. A reprint of the sixth edition, but with the German instead of the Swedish names. The engraved portrait of Linnæus bears the inscription: "Delin 1748. J.M. Bernigeroth sc. Lips. 1749."

REFERENCES: Hulth, *Bibliographia Linnaeana*, 1907: I 5. • Soulsby, *Catalogue of the Works of Linnaeus*, 1933-6: no. 52.



SYSTEMA NATURÆ, 1748

**3075. 6th edition, 1748:** Caroli Linnæi | Archiater. Reg. Med. Et Bot. Profess. Upsal. | *Systema Naturæ* | Sistens | Regna Tria Naturæ, | In | Classes Et Ordines | Genera Et Species | Redacta | Tabulisque Æneis Illustrata. | [ornament] | [rule] | Cum Privilegio S.R.M. Polonicæ Ac Electoris Saxon. | [rule] | Secundum sextam Stockholmiensem emendatam & auctam | editionem. | [rule] | Lipsiæ, | Impensis Godofr. Kiesewetteri. | 1748.

8°: \*3 A-P<sup>8</sup> Q<sup>3</sup>; 131f.; [6], [1]-224, [32] p., frontispiece (portrait of Linnaeus), 8 plates. PAGE SIZE: 195 x 122 mm.

CONTENTS: [Frontispiece.]; [2 pgs], Title page, verso blank.; [2 pgs], Dedication to Count Gustav Tessin.; [2 pgs], "Lectori," signed C. Linnæus, 2 August 1748.; [1]-224, Text.; [13 pgs], "Index Latinus."; [9 pgs], "Index Germanicus."; [2 pgs], Blanks.; [8 pgs], Explication of the plates.; [At end], 8 plates.

PLATES: The frontispiece portrait shows the upper body of Linnaeus seated at a table with him leaning on

a book. The caption below the portrait reads in a cursive script, "Carolus Linnaeus, M.D. | [...4 lines of titles and memberships...] | Navis 1707 May13/24 Delin. 1748 | J.M. Bernigeroth Sc. Lips. 1749." The eight other plates consist of: I. Skulls, II. Birds, III. Snakes & Lizards, IV. Fish, V. Insects, VI. Snails & Squids, VII. Plants, & VIII. Crystals.

VERY SCARCE. This edition was completely rewritten by Linnaeus. Illustrations appear for the first time. Swedish and Latin names are given whenever possible for the animals and minerals. The order of the three kingdoms has been changed to animals, plants, minerals from the minerals, plants, animals of previous editions.

REFERENCES: Hoover Collection: no. 540. • Hulth, *Bibliographia Linnaeana*, 1907: I 5. • Lärda Tidningar: 1748, 277-9. • Soulsby, *Catalogue of the Works of Linnaeus*, 1933-6: no. 51.

**3076. 8th edition, issue A, 1753:** Indelning i Ört-Riket, efter *Systema Naturæ*, på Svenska öfversatt af Joh. J. Haartman. Stockholm: L. Salvius, 1753.

8°: [4], 136, [16] p., 3 plates.

VERY SCARCE. Although this work would perhaps be better considered an augmented translation, Linnaeus called this book the eighth edition of his *Systema Naturæ*. The Mineral System was translated by H.A. Möller from the 6th edition. Dedicated to Countess Ulrica Lovisa Tessin.

REFERENCES: Soulsby, *Catalogue of the Works of Linnaeus*, 1933-6: no. 53.

**3077. 9th edition, 1756:** Caroli Linnæi ... *Systema Naturæ*, sistens Regna tria Naturæ, in classes et ordines genera et speies redacta, tabulisque æneis illustrata. Accedunt vocabula Gallica. Editio multo auctior & emendatior [by J.F. Gronovius]. Lugduni Batavorum: Apud Theodorum Haak, 1756.

8°: [6], 227, [27] p., 8 plates.

VERY SCARCE. Dedicated to Count C.G. Tessin. Based upon the seventh edition, with some additions. Edited by Johann Friedrich Gronovius, this edition replaces the German names by French.

REFERENCES: *Göttingische Anzeigen*: 1 (1757), 351-2. • Hulth, *Bibliographia Linnaeana*, 1907: I 5-6. • Soulsby, *Catalogue of the Works of Linnaeus*, 1933-6: no. 57.

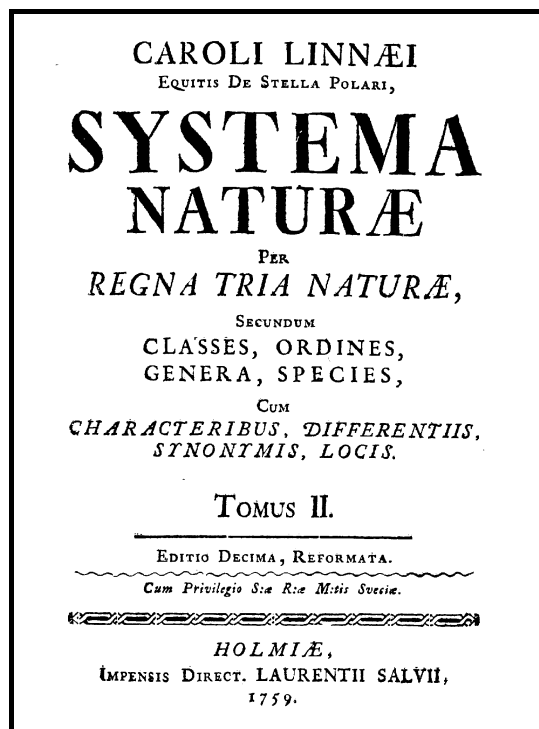
**3078. 10th edition, 1758-9:** Caroli Linnæi | [...4 lines of titles and memberships...] | *Systema Naturæ* | Per | Regna Tria Naturæ, | Secundum | Classes, Ordines, | Genera, Species, | Cum | Characteribus, Differentiis, | Synonymis, Locis. | Tomus I [-II]. | [rule] | Editio Decima, Reformata. | [wavy rule] | Cum Privilegio S:æ R:æ M:itis Svc:æ. | [ornate rule] | Holmiæ, | Impensis Direct. Laurentii Salvii, | 1758 [-1759].

2 vols. [VOL 1: 1758] 8°: [4], 823, [1] p.; [VOL 2: 1759] 8°: [4], 824-1348 p.

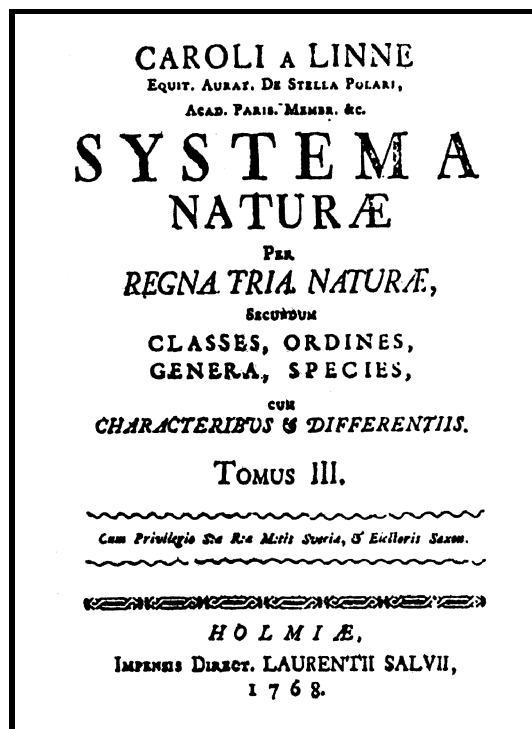
VERY SCARCE. This is the fourth original edition of the *Systema*. The total of Genera described amount to 312 with 4,378 species. "It is in this edition that Linné carried out the definitive plan of binomial nomenclature, with diagnosis and synonymes, for the first time, including the generic and trivial names, which together form the specific name, of each animal. This edition has therefore been accepted as the basis of zoological nomenclature." [Sandbergs Bokhandel, 1957].

The binomial system first applied to minerals in *Museum Tessinianum* is extended into the *Systema*.

REFERENCES: *Commentarii de Reb. in Sci.Nat., &c.*, Leipzig: 8 (1759), 679-91 & 9 (1760), 598-605. • Dibner, *Heralds of Science*, 1955: 27 [see note]. • *Freilich Sale Catalog*: no. 358. • *Gentleman's Magazine*: 29 (1759), 454-7, 509-11, 564-6 & 35 (1765), 57-61. • *Göttingische Anzeigen*: 2 (1759), 692-6 & 1326-7. • Hulth, *Bibliographia Linnaeana*, 1907: I 6-7. • LKG: XII 76a. • Norman Catalog: 1, ??, no. 1359. • Pritzel, *Thesaurus Literaturæ Botanicae*, 1871-3: no. 5404. • Soulsby, *Catalogue of the Works of Linnaeus*, 1933-6: no. 58. • Stafleu & Cowan, *Taxonomic Literature*, 1976-88: 4794. •



SYSTEMA NATURÆ, 1759



SYSTEMA NATURÆ, 1768

Vogel's Neue Medicinische Bibliothek: 4 (1760), theil 4, 289-96.

**3079. 10th edition, pirated, 1760-70:** Caroli Linnæi ... Systema Naturæ per Regna tria Naturæ, Secundum Classes, Ordines, Genera, Species, cum Characteribus, Differentiis Synonymis, Locis ... Præfatus est Joannes Joachimus Langius ... Ad editionem decimam reformatam Holmiensem. Halæ Magdeburgicæ: Typis et sumtibus Jo. Jac. Curt, 1760-70.

3 vols. [VOL 1: 1760] 8°: [6], 823, [1] p.; [VOL 2: 1760] 8°: [2], 825-1380 p. [VOL 3: 1770] 8°: 236, [10] p., 3 plates.

VERY SCARCE. See Soulsby for differences.

REFERENCES: Hulth, *Bibliographia Linnaeana*, 1907: I 7 & 9. • Soulsby, *Catalogue of the Works of Linnaeus*, 1933-6: no. 60.

**3080. 11th edition, 1762:** Caroli Linnæi ... Systema Naturæ, &c. Lipsiæ, 1762.

8°.

VERY SCARCE. This may be a nonexistent edition.

REFERENCES: Soulsby, *Catalogue of the Works of Linnaeus*, 1933-6: no. 61.

**3081. 12th edition, 1766-8:** Caroli a Linné | [...2 lines of titles and memberships...] | Systema | Naturæ | Per | Regna Tria Naturæ, | Secundum | Classes, Ordines, | Genera, Species, | Cum | Characteribus & Differentiis. | Tomus III. | [wavy rule] | Cum Privilegio Sæ Ræ Mitis Sverie, & Electoris Saxon. | [wavy rule] | [ornate rule] | Holmiæ, | Impensis Direct. Laurentii Salvii, | 1768.

3 parts bound in 4 vols. [VOL 1] 8°: 532 p.; [VOL 2] 8°: 533-1327, [1], [36] p.; [VOL 3] 8°: 736, [16], 142, [2] p.; [VOL 4] 8°: 236, [20] p., 3 folding plates.

VERY SCARCE. This is the last edition revised by Linnaeus himself. It incorporates many additions to the tenth edition, especially in the zoological and botanical portions. With reference to mineralogy, this edition classifies miner-

als according to a binomial system for the first time. The plates belong to the mineralogical volume, which occupies volume four.

The twelfth edition of the *Systema Naturæ* incorporated Linnaeus' most mature thought concerning individuals of the mineral kingdom. There were, Linnaeus stated in the preface to this section, three methods one might use to investigate the stones, minerals and fossils found in the natural environment. The first was the physical, which "descended through the obscure generation of minerals"; the second was the natural, which "considered the superficial and visible structures"; and the third was the chemical, which ascended through to the middle course, and, having thus provided a justification of his methodology, Linnaeus proceeded to make a systematic classification of various crystalline substances.—Burke (1966).

REFERENCES: *Berlinische Sammlungen*: 3, 650. • Burke, *Origins of the Science of Crystals*, 1966: 51. • *Commentarii Lipsiæ*: 15 (1768), 322-33 & 16 (1770), 104-28, 338-44. • *Göttingische Anzeigen*: 2 (1767), 783-4, 2 (1768), 781-2 & 1 (1770), 21-4. • Hoover Collection: no. 541. • Hulth, *Bibliographia Linnaeana*, 1907: I 9. • *Lärda Tidningar*: 1766, 229-31, 1767, 134-6 329-30 & 1768, 297-9. • Lima-de-Faria, *Historical Atlas of Crystallography*, 1990: [reproduces the title page]. • LKG: XII 76a. • Soulsby, *Catalogue of the Works of Linnaeus*, 1933-6: no. 62.

**3082. 1767-70:** Systema Naturæ, per regna tria naturæ, secundum classes, ordines, genera, species cum characteribus, differentiis, synonymis, locis. ; Editio decima tertia, ad Editionem duodecimam reformatam Holmiensem. Vindobonæ, I. Thomæ nob. de Trattner, 1767-1770.

3 parts in 4 vols. [VOL 1: 17-] 8°: 1-532 p.; [VOL 2: 17-] 8°: 533-1327, [1], [36] p.; [VOL 3: 17-] 8°: 736, [16] p.; [VOL 4: 17-] 8°: 142, [2] p.; 236, [20] p., 3 folded engraved plates.

VERY SCARCE. This 'thirteenth' edition is a page-for-page reprint of the rare twelfth edition published in 1766-

1768. The last part of the second volume (i.e., 144 pages) contains the 'Mantissa Plantarum. Generum editionis VI. et Specierum editionis II', which is often lacking.

REFERENCES: Hulth, *Bibliographia Linnaeana*, 1907: 9 & 25. • Soulsby, *Catalogue of the Works of Linnaeus*, 1933-6: nos. 116 & 311b.

**3083. 8th edition, issue B, 1777:** Indelning i Ört-Riket, Efter Systema Naturae. På Svenska öfversatt af Johan Haartman. Och nu andra gången uplagd, ändrad och tilökt efter 13:de uplagan af Systemet. Westerås, Joh. Laur. Horrn 1777.

8°: [2], 158, [16] p., 3 engraved plates. VERY SCARCE.

**Facsimile reprint, 1976:** *Indelning i Ört- Riket efter Systema Naturae. På svenska öfversatt af Johan J. Haartman och nu andra gången uplagd, ändrad och tilökt efter 13:de upplagan af Systemet.* Stockholm, Bokförlaget Rediviva, 1976. [6], 158, [16] p.

REFERENCES: Soulsby, *Catalogue of the Works of Linnaeus*, 1933-6: no. 56.

**3084. 13th ed., 1788-93:** *Systema naturae...* Ed. 13., aucta, reformata. Cura Jo. Frid. Gmelin... Lipsiae: impensis G. E. Beer, 1788-93.

9 vols. VERY SCARCE.

REFERENCES: Soulsby, *Catalogue of the Works of Linnaeus*, 1933-6: no. ??.

Natuurlyke Historie of Uitvoerige Beschryving der Dieren, Planten en Mineralen, volgens het samenstel van den Heer Linnaeus. Met naauwkeurige Afbeeldingen. (5 vols., Amsterdam, 1780-5).

See: Houttuyn, Martinus.

Vollständiges Natursystem des Mineralreichs nach der zwölften lateinischen Ausgabe in einer freyen und vermehrten Übersetzung von J. F. Gmelin. (4 vols., Nürnberg, 1777-9).

See: Gmelin, Johann Friedrich.

### English editions

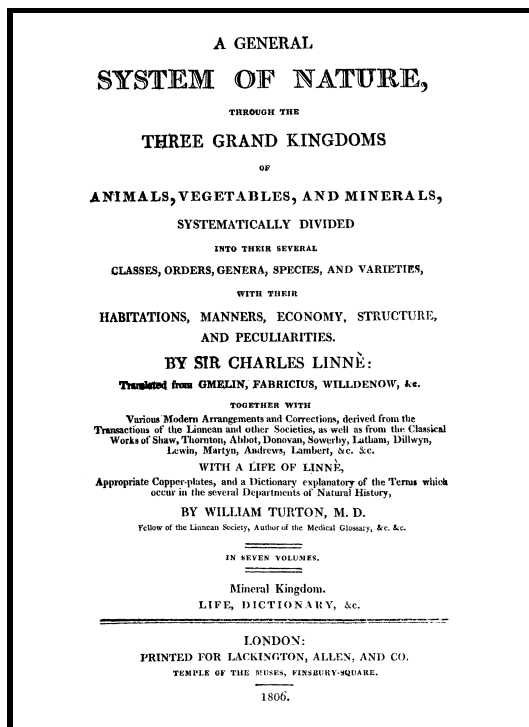
**3085. English transl., 1794-1810:** A | Genuine And Universal | Sytem | Of | Natural History; | Comprising The | Three Kingdoms Of | Animals, Vegetables, And Minerals, | Arranged Under Their Respective | Classes, Orders, Genera, And Species, | By the late Sir Charles Linnæus, | [...3 lines of titles and memberships...] | Improved, Corrected, And Enlarged, | By J. Frid. Gmelin, M.D. | Professor Of Natural History In The Royal Society | Of Gottingen. | Faithfully translated, and rendered mor complete by the Addition | of Vaillant's beautiful Birds of Africa; the superb Fish | of Mark Eliezer Bloch; the Amphibious Animas, Rep- | tiles, Insects, &c. in the costly Works of Albertus Seba, Merian, Fabricius, Knorr, &c. teh elegant Improvements | of the Comte de Buffon, and the more modern Discoveries | of the British Navigators in the South Pacific Ocean, New | Holland, New South Wales, China, Cochín-China, &c. | Methodically incorporated and arranged by the Editors of the | *Encyclopædia Londinensis*. | [double rule] | Volume The Fourteenth. | [double rule] | London: | Printed For The Proprietor By W. Lewis, Paternos- | ter-Row; And Sold By Champante And Whitrow, | Jewry-Street, Aldgate; And At The Ency- | clopædia Office, Ave-Maria-Lane, | St. Pauls.

14 vols.

VERY SCARCE. This work, published under the direction of the editors of the *Encyclopaedia Londinensis* is credited to Linnaeus on the title page, but is actually only based upon the *Systema Naturæ* in general outline. It is augmented with information from many sources as well as copious illustrations. It was prepared to appeal to a large market and therefore contains a large amount of information not usually included in other works on natural history. For example, in the first volume is included material relating "to the occult influence of Nature over

Man, founded on the exploded doctrine of astrology" on the theory that "it might be thought curious by some readers ..."

REFERENCES: Buckman, *Catalog of a Linnaeus Exhibition*, 1957: no. 9. • Soulsby, *Catalogue of the Works of Linnaeus*, 1933-6: no. ??.



### GENERAL SYSTEM OF NATURE, 1806

**3086. English transl., 1806:** A General | System Of Nature, | Through The | Three Grand Kingdoms | Of | Animals, Vegetables, And Minerals, | Systematically Divided | Into Their Several | Classes, Orders, Genera, Species, And Varieties, | With Their | Habitations, Manners, Economy, Structure, | And Peculiarities. | By Sir Charles Linné: | Translated from Gmelin, Fabricius, Willdenow, &c. | Together With | Various Modern Arrangements and Corrections, derived from the | Transactions of the Linnean and other Societies, as well as from the Classical | Works of Shaw, Thornton, Abbot, Donovan, Sowerby, Latham, Dillwyn, Lewin, Martyn, Andrews, Lambert, &c. &c. | With A Life Of Linné, | Appropriate Copper-plates, and a Dictionary explanatory of the Terms which | occur in the several Departments of Natural History, | By William Turton, M.D. | Fellow of the Linnean Society, Author of the Medical Glossary, &c. &c. | [double rule] | In Seven Volumes. | [double rule] | Mineral Kingdom. | Life, Dictionary, &c. | [double rule] | London: | Printed For Lackington, Allen, And Co. | Temple Of The Muses, Finsbury-Square. | [rule] | 1806.

6 parts in 7 vols. 8°: 20 plates.

VERY SCARCE. Second English edition, translated by William Turton from *Systema Naturæ, sive, Regna tria Naturæ systematice disposita per classes, ordines, genera & species* (1788-93). In 1735, Linné in the first edition of his *Systema Naturæ* set forth an epitom of a carefully reasoned classification of the mineral kingdom, based upon both physical and chemical properties of mineral substances. In this work, he proposes an all-inclusive systematization of



## LINNAEUS

natural productions. By means of a careful application of rules of classification to minerals, plants, and animals, he had devised a scheme of classification that reduced Nature's infinite variety to a generalized conceptual scheme. This was an outstanding accomplishment in its time. Although Linné's theories would be replaced by other methods, the classification he developed for plants is still in use. The mineralogical portion together with a "Life of Linné" and an "Explanation of Terms" occupies the seventh volume.

**William Turton.** (BORN: 1735; DIED: 1806) *English physician.*

REFERENCES: Soulsby, *Catalogue of the Works of Linnaeus*, 1933-6: no. ?? (Turton) DNB.

### 3087. — Swedish, 1745.

Oländska och Gothländska Resa. Stockholm & Upsala: G. Kiesewetter, 1745.

8°: [14], 344, [30] p., 2 folding maps, one plate, woodcuts in text.

VERY SCARCE. Linnaeus' account of his journey to Öland and Gotland on behalf of the government in 1741. The purpose was to find a clay suitable for making chinaware and survey the land for other natural resources suitable for manufacture processes so that the country could become less dependent on imports. Linnaeus was not successful in his assignment, but at the same time he made many observations on the people and their land. The work is of interest not only for the botanical results, which discovered over one hundred new plants, but also for many other observations relating to mineralogy, especially iron. A very rare book.

**Facsimile reprint, 1962:** *Carl Linnaeus Öländska och Gotländska resa 1741.* England, Wahlström & Widstrand, 1962. 390 p., illus.

**Facsimile reprint, 1971:** *Öländska och Gotländska Resa på Rikens Höglovliga Ständers Befallning förrättad år 1741.* Red. af Carl-Otto von Sydow. Illustr. af Gunnar brusewitz. Stockholm, 1977. 391 p., 2 maps, illus.

REFERENCES: LKG: XIV 779. • Soulsby, *Catalogue of the Works of Linnaeus*, 1933-6: no. 202.

**3088. German transl., 1764:** *Reisen durch Oeland und Gotland: welche auf befehl der hochloblichen Reichsstände des Königreichs Schweden in Jahr 1741 angestellt worden.* Aus dem schwedischen übersetzt. Halle, J.J. Curt, 1764.

8°: [32], 364, [23] p.: fold. pl., fold. map.

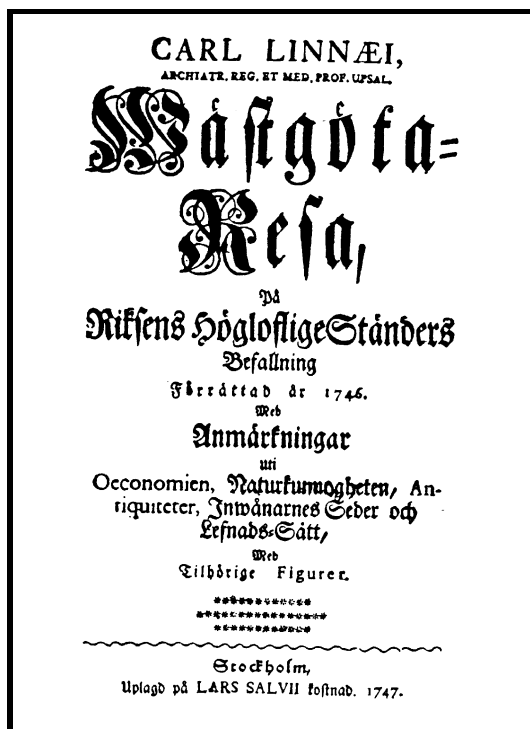
VERY SCARCE. Translation by J.C.D. SCHREBER.

These two journeys to Swedish islands in the Baltic Sea were made in 1741 at the request of government authorities. Linnaeus was commissioned to try to find a clay suitable for making chinaware and further was to take note of any raw material which might be used in manufactures so that the country would be less dependent on imports. He was not successful in this specific assignment, but at the same time he made many observations of the antiquities of the islands, the people, the mechanic arts and fishing. More than one hundred new plants were discovered, some of them useful in medicine, dyeing and the rural economy.

REFERENCES: Buckman, *Catalog of a Linnaeus Exhibition*, 1957: no. 33. • LKG: XIV 782c. • Soulsby, *Catalogue of the Works of Linnaeus*, 1933-6: no. 207.

### 3089. — Swedish, 1747.

Carl Linnæi | Archiate. Reg. Et Med. Prof. Upsal. | Wästgöta= | Resa, | På | Rikens Högloslige Ständers | Befallning | Förrättad år 1746. Meb | Anmärkningar | uti | Oeconomien,



WÄSTGÖTA=RESA, 1747

Naturkunnogheten, An- | riquiteter, Inwånarnes Seder och | Lesnads=Sätt, | Meb | Tillhörige Figurer. | [ornament, consisting of 3 lines of 'ast'] | [wavy rule] | Stockholm, | Uplagd på Lars Salvii Kostnad. 1747.

8°:

RARE. A journey undertaken by Linnaeus in 1746 to various places in the central provinces of Sweden. It was one of several such trips financed by the government.

On the pages shown here Linnaeus discusses Fdrgedrdsen or plants used to make dyes. He describes three varieties one of which is Wejde (*Isatis tinctoria*). This plant, often growing to a height of about three feet, bluish green in appearance and with a yellow flower, was used prior to the discovery of sea routes to India, to prepare indigo. This and other native colors were used in the provinces to dye peasant yarn and woven materials. The illustration, drawn by Linnaeus is Wejdeqwarnen or the *Isatis* mill which was used to pulverize the leaves of the plant. Domestic dyes made from plants are now being used again in Sweden because of the renewed interest in peasant crafts.

**Facsimile reprint with commentary, 1928:** *Carl Linnæi . . . Wästgöta-Resa . . . förrättad år 1746 . . .* Nytryck efter original-upplagan 1747 med textkommentar av Natanael Beckman. Thulin & Ohlson, Göteborg, 1928.

**Facsimile reprint, 1956:** *Wästgöta resa 1746.* Malmö, John Kroon, 1956. 8°: [4], [12], 284, [20] p., 4 plates.

REFERENCES: Buckman, *Catalog of a Linnaeus Exhibition*, 1957: no. 37. • LKG: XIV 781b. • Soulsby, *Catalogue*



REISEN DURCH WESTGOTHLAND, 1765

of the Works of Linnaeus, 1933-6: no. 218.

**3090. German transl., 1765:** Herrn Carls von Linne | [...8 lines of titles and memberships...] | Reisen | durch | Westgothland, | welche | auf Befehl der hochlöblichen Stände | des Königreichs Schweden | im Jahr 1746. | angestellt worden. | Aus dem Schwedischen übersetzt. | [rule] | Mit Kupfern. | [rule] | [ornament] | [double rule] | Halle, | Druck und Verlag Johann Jacob Curts, 1765.

8°:

VERY SCARCE. Translation by ??? of Wästgöta=Resa (Stockholm, 1747).

REFERENCES: Soulsby, *Catalogue of the Works of Linnaeus*, 1933-6: no. ??.

### 3091. — Latin, 1747.

Specimen academicum de Crystallorum Generatione quod ... sub Præsidio ... Caroli Linnæi ... modeste submittit Martinus Kähler ... d. XXII Decembr. Anni MDCCXLVII.

4°: [8], 30, [2] p., one plate.

VERY SCARCE. Linnaeus was one of the first researchers who considered how crystal were generated.

This dissertation was reprinted several times in the collected papers of Linnæus. See Soulsby, 1477-1482.

REFERENCES: *Catalogue of the Works of Linnaeus*: p. 98, no. 396. • *Göttingische Zeitungen von gelehrten Sachen*: Stuck 120 (1748), 970-2. • LKG: IX 3. • Soulsby, *Catalogue of the Works of Linnaeus*, 1933-6: no. 1476.

**3092. German transl., 1771:** Martin Käblers Abhandlung von der Erzeugung der Kristalle aus dem Lateinischen übersetzt. Grätz: Bey den Widmanstätterischen Erben, 1771.

8°: [2], 43 p., one plate. VERY SCARCE.

REFERENCES: Hulth, *Bibliographia Linnaeana*, 1907: I 55. • LKG: IX 3. • Soulsby, *Catalogue of the Works of Linnaeus*, 1933-6: no. 1483.

### 3093. — Swedish, 1751.

[In red:] Carl Linnæi, | [in black:] Archiat. Reg. Et Med. Prof. Upsal. | Skånska | [in red:] Resa, | [in black:] På | [in red:] Håga Öswerhetens | [in black:] Befallning | Fortåttad Ar 1749. | Med | [in red:] Rön och Anmärkningar | [in black:] Uti | Oeconomien, Naturalier, Antiquiteter, | Seder, Lefnads=sått. | Med | [in red:] Tilhörige Figurer. | [in black, wavy rule] | Med Kongl. Mairs. Allernaegste Privilegio. | [wavy rule] | [in red:] Stockholm, | [in black:] Uplagd på Lars Salvii kostnad 1751.

8°: [i]-xiv, [1]-434, [34] p., one engraved map, 6 engraved plates. Title in red and black. VERY RARE.

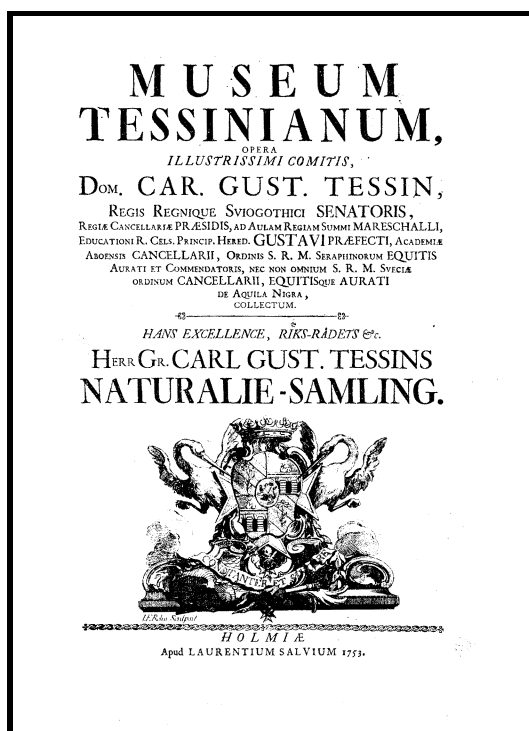
REFERENCES: LKG: XIV 783. • Soulsby, *Catalogue of the Works of Linnaeus*, 1933-6: no. 210.

**3094. German transl., 1757:** Reise durch d. Konigreich Shweden zur Verbesserung der Naturkunde, Haushaltungskunst etc. a. unt. d. Title: Versuch einer Naturhistorie von einigen Schwed. Provinzen. A.d. Schwed. von K.E. Klein. Leipzig, 1757.

8°:

VERY SCARCE. Translation by K.E. Klein [????] of *Skånska Resa* (Stockholm, 1751).

REFERENCES: LKG: XIV 784. • Soulsby, *Catalogue of the Works of Linnaeus*, 1933-6: no. 213.



MUSEUM TESSINIANUM, 1753

**3095. — Latin, 1753** [Collection catalog].

Museum | Tessinianum, | Opera | Illustrissimi  
Comitis, | Dom. Car. Gust. Tessin, | [...8 lines  
of titles and memberships...] | [ornate rule] | Hans  
Excellence, Riks-Rådets &c. | Herr Gr. Carl Gust.  
Tessins | Naturalie-Samling. | [engraved ornament,  
signed "I.E. Rehn Sculpsit"] | [ornate rule] | Holmiæ  
| Apud Laurentium Salvium 1753.

[SECTIONAL TITLE PAGE:]

Lapides | Dividuntur | In | Petras, | Quæ Lapidess  
Simplices. | Mineras, | Quæ Compositos. | Fossilia,  
| Quæ Mixtos | Comprehendunt, | [rule] | Ste●nar  
| Fordelas | I | Berg-Arter, | Malmer | Och |  
Grus-Arter.

2° (in 4s): )<sup>4</sup> A-Q<sup>4</sup> R<sup>2</sup>; 70ℓ.; [8], [1]-123, [9] p., 12  
plates (engraved; numbered I-XII). Printed in parallel  
columns in Latin and Swedish. PAGE SIZE: 430 x 250  
mm. uncut.

CONTENTS: [2 pages], Title page, verso blank.;  
[6 pages], "Observatio. Anmarkning," in Latin & Swedish  
in parallel column.; [1], Sectional title page.; 2-123,  
Text.; [6 pages], "Tabularum Explicatio." [=description  
of plates].; [3 pages], "Index."

PLATES: The unsigned engraved plates are numbered  
I to XII. No descriptions appear on the plates, as this is  
taken care of by descriptive text preceding the plates. Each  
illustration shows various specimens from the collection.

The plates comprise: I. [Smoky quartz group]. II.  
[Tourmaline specimen and calcite specimen]. III. [Fossil  
trilobite]. IV. [Fossil shells]. V. [Fossil bivalves]. VI. [Fossil  
shells]. VII.-VIII. [Petrified wood]. IX. [Starfish]. X.-XII.  
[Coral specimens].

VERY SCARCE. A catalog of the collection of  
minerals and fossils belonging to Count Carl Gustaf  
Tessin [see note below] and stored in his castle at Åkerö,  
Sweden. Tessin was a great friend of Linneaus and  
used his influence to help the botanist establish his  
reputation. In appreciation, Linneaus dedicated many  
of his books to either Tessin or his wife. Finally,  
Linneaus prepared this catalog of his benefactor's  
mineralogical cabinet. Although Linneaus' name does  
not appear on the title page and contrary to custom,  
Tessin dedicated the work to Linneaus "as he alone  
should have the honor."

The text is written in both Latin and Swedish,  
which is presented in parallel columns throughout. In  
the book's preliminaries, Linneaus sets forth various  
observations about the nature of the mineral kingdom,  
and various methods of classifying its members. The  
text of the catalog is then presented. Linneaus has  
divided the minerals into simple stones, composite  
minerals and fossils. Following are pages describing the  
specimens illustrated on the plates. At the conclusion  
of the volume are indexes to the species mentioned. The  
first provides the names in Latin while the other gives  
the Swedish. Soulsby (1933) says the count only had a  
few copies printed for private circulation. A rare book.

**Carl Gustaf Tessin.** (BORN: Stockholm, Sweden, 5  
September 1695; DIED: Åkerö, Sweden, 7 January 1770)  
*Swedish aristocrat & politician.* Tessin was the son of the  
architect and court superintendent. He was educated in

France and Italy, and became the founder of the 18th-  
century parliamentary Hat Party and an influential adviser  
to the court of Adolf Frederick. In 1725 Tessin was  
appointed ambassador at Vienna. From 1746 to 1752  
Tessin was president of the chancellery, the equivalent  
of today's prime minister. Tessin was one of the most  
brilliant personages of his time, and the most important  
representatives of French culture in Sweden.

REFERENCES: Buckman, *Catalog of a Linnaeus Exhibi-  
tion*, 1957: no. 72. • Cobres, *Deliciae Cobresianæ*, 1782: 1,  
111, no. 25. • Denso's *Physikalische Bibliothek*: Stück 2, 122.  
• *Freilich Sale Catalog*: no. 524. • Gatterer, *Mineralogischen  
Literatur*, 1798-9: 1, 281. • *Göttingische gelehrte Anzeigen*:  
1754, 476. • Hoover Collection: no. 781. • LKG: XV 16. •  
Nissen (ZBI): no. 2521. • Soulsby, *Catalogue of the Works  
of Linnaeus*, 1933-6: no. 1081. • Ward & Carozzi, *Geology  
Emerging*, 1984: no. 2160. • Warmholtz, *Bibliotheca Sueo-  
Gothica*, 1782-1817. (Tessin) *Encyclopaedia Britannica*, 11th  
edition. • SBA: Scandinavian Biographical Archive: B-331,  
406-461. • *Svenskt Biografiskt Handlexikon*: 2, 600-1. • *Sven-  
skt Biografiskt Lexikon*. • WBI.

**3096. — Swedish, 1907.**

Linnés | Pluto Svecicus | Och | Beskrifning |  
Öfwer Stenriket | Utgifna Af | Carl Benedicks |  
[tapered rule] | Uppsala 1907 | Almqvist & Wiksells  
Boktryckeri-A.-B.

8°: xvii, [2], 48 p., 3 plates. Printed wraps.

SCARCE. This is Linneaus' first work dealing  
with the mineral kingdom. The manuscript is dated  
Dalecarlia, Sweden, 1734, but was not published until  
*Pluto Svecicus* appeared in 1907. However, the  
information contained therein formed the foundation  
for the *regnum lapideum* section in the many editions  
of the *Systema Naturæ*. The prime criticism of his  
classification was that it relied upon the external form  
on minerals and did not account for the minerals  
chemical properties. None the less, Linneaus was in  
many ways in advance of his time with respect to his  
observations in mineralogy, geology, and paleontology.

REFERENCES: Buckman, *Catalog of a Linnaeus Exhibi-  
tion*, 1957: no. 6. • Soulsby, *Catalogue of the Works of Lin-  
neaus*, 1933-6: no. 1012.

**3097. — Latin, 1745.**

Q.F.F.Q.S. | Dissertatio, | Corallia | Baltica  
| Adumbrans, | Quam, | Consensu Ampliss.  
Facultat. Medicæ | In Regia Academia Upsaliensi,  
| Præsidi, | Celeberrimo et Experientissimo Viro, |  
Domino | Doct. Carolo | Linnæo, | [...3 lines of titles  
and memberships...] | Publicæ Bonorum Censuræ  
Submittit | Henricus Fougt, | Reg. Coll. Mitall.  
Adscr. | In Audit. Carol. Maiori Ad Diem VIII.  
Junii | Anni MDCCXLV. | Horis, Ante Meridiem,  
Consuetis. | [ornate rule] | Upsaliæ.

Small 4°: [8], 40 p., one folding engraved plate (32  
figures).

VERY SCARCE. An early publication dealing with  
the corals found in the Baltic. Although Fougt was long  
credited with authoring this dissertation, G. Lindström  
proved that Linné is the true author. Fougt only drew  
the figures and paid the costs of the printing. This  
work was reprinted four times and translated into both

German and English.

REFERENCES: LKG: XVI 785. • Soulsby, *Catalogue of the Works of Linnaeus*, 1933-6: no. 1401.

### 3098. — Latin, 1772.

Caroli a Linné systema naturae ex editione duodecima in epitomen redactum et praelectionibus academicis accomodatum a Iohanne Beckmanno. Göttingen: sumtu viduae Vandenhoeck, 1772. [Bound with, as issued:] *Illustris Caroli a Linné terminologia conchyliologiae*. Edita a Iohanne Beckmanno. Göttingen: sumtu viduae Vandenhoeck, 1772.

(16) 240 pp.; 356 (32) pp.

VERY SCARCE. First edition of Johann Beckmann's epitome of Linnaeus's great work of classification; based upon the 12th edition published in 1766. Beckmann had studied with Linnaeus in the 1760's, but his chief field of expertise was agriculture, and the history of inventions.

REFERENCES: Soulsby, *Catalogue of the Works of Linnaeus*, 1933-6: no. ??.

3099. German transl., 1764: Herrn Carls von Linné ... Reisen durch Oeland und Gothland, welche auf Befehl der hochlöblichen Reichsstände des Königreichs Schweden im Jahr 1741 angestellt worden. Aus dem Schwedischen übersetzt. Halle, Johann Jacob Curt, 1764.

8°.

SCARCE. Translation by J.C.D. SCHREBER. These two journeys to Swedish islands in the Baltic Sea were made in 1741 at the request of the Swedish government. Linnaeus was commissioned to find a suitable clay for making chinaware. In addition, he was to make observations on the raw materials of the area that might be used in manufacturing so that the kingdom might become less dependent on imports. Although not successful in his specific assignment, Linnaeus has included in this work many observations on the antiquities of the islands, the people, their method of fishing, botany, animals and minerals. More than one hundred new plants were discovered, some of them useful in medicine, dyeing and the rural economy.

REFERENCES: Buckman, *Catalog of a Linnaeus Exhibition*, 1957: no. 33. • LKG: XIV 780a. • Soulsby, *Catalogue of the Works of Linnaeus*, 1933-6: no. ??.

3100. English transl., 1802-4: A General System of Nature, through the three Grand Kingdoms of Animals, Vegetables, and Minerals. Translated from Gmelin, Fabricius, Willdenow, Co., 1806.

4 vols.

VERY SCARCE. This edition contains only the animal kingdom, and no mineralogy.

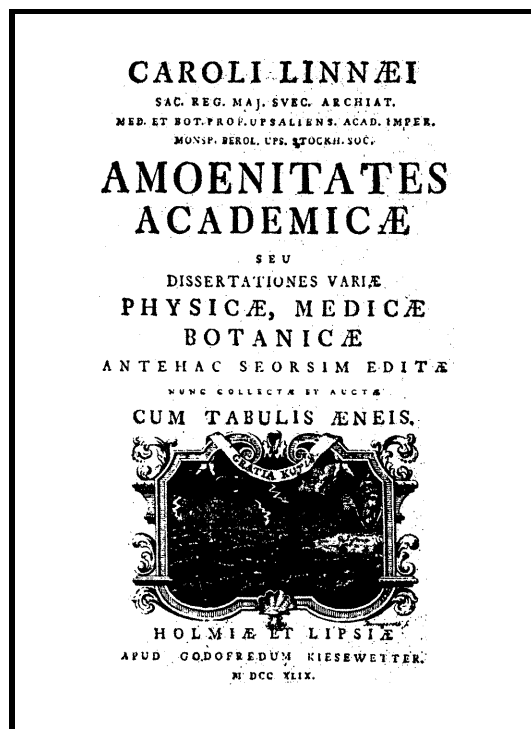
REFERENCES: Soulsby, *Catalogue of the Works of Linnaeus*, 1933-6: no. ??.

## Amoenitates Academicæ

### 3101. — Latin, 1749-90.

Caroli Linnæi | [...3 lines of titles and memberships...] | Amoenitates | Academicæ | Seu | Dissertationes Variæ | Physicæ, Medicæ | Botanicæ | Antehac Seorsim Editæ | Nunc Collectæ Et Auctæ | Cum Tabulis Æneis. | [vignette] | Holmiæ Et Lipsiæ | Apud Godofredum Kiesewetter. | M DCC XLIX.

10 vols. [VOL 1: 1749] 8°:  $\pi^2$  A-Mm<sup>8</sup> Nn<sup>6</sup>; 284 $\ell$ .; [4], [1]-563, [1] p. [VOL 2: 1751] 8°:  $\pi^2$  A-Ff<sup>8</sup> Gg<sup>6</sup>; 240 $\ell$ .;



AMOEINITATES ACADEMICÆ, 1749

[4], [1]-476 p. [VOL 3: 1756] 8°:  $\pi^2$  A-Ff<sup>8</sup>; 234 $\ell$ .; [4], [1]-464 p. [VOL 4: 1759] 8°:  $\pi^2$  A-Oo<sup>8</sup> Pp<sup>4</sup>; 302 $\ell$ .; [4], [1]-600 p. [VOL 5: 1760] 8°:  $\pi^2$  A-Ii<sup>8</sup> Hh<sup>6</sup>; ?? $\ell$ .; [4], [1]-483, [8] p. [VOL 6: 1764] 8°:  $\pi^2$  A-A-Gg<sup>8</sup> Hh<sup>3</sup>; 245 $\ell$ .; [4], [1]-486 p. [VOL 7: 1769] 8°:  $\pi^2$  A-Hh<sup>8</sup> Ii<sup>6</sup>; 256 $\ell$ .; [4], [1]-506, [2] p. [VOL 8: 1785] 8°:  $\pi^2$  A-X<sup>8</sup>; 168 $\ell$ .; [4], [1]-332 p. [VOL 9: 1785] 8°:  $\pi^3$  A-U<sup>8</sup> X<sup>6</sup>; 165 $\ell$ .; [6], [1]-331, [1] p. [VOL 10: 1790] 8°:  $\pi^2$  A-Hh<sup>8</sup> Ii<sup>6</sup>; 256 $\ell$ .; [4], [1]-506, [2] p.

CONTENTS: [Vol 1] [2 pgs], Title page, verso blank.; [2 pgs], "Disserationes | In Hoc Volumine | Contentæ." [=table of contents].; [1]-563, Text of dissertations.; [1] pg], Blank.

[Vol 2] [2 pgs], Title page, verso blank.; [2 pgs], "Disserationes | In Secundo Volumine | Contentæ."; [1]-476, Text of dissertations.

[Vol 3] [2 pgs], Title page, verso blank.; [1 pg], Dedication to Carolus Ehrenpreus.; [1 pg], "Disserationes | In Tertio Volumine | Contentæ."; [1]-464, Text of dissertations.

[Vol 4] [2 pgs], Title page, verso blank.; [1 pg], Dedication to Johanni Georgio Lilljeborg.; [1 pg], "Disserationes | In Quarto Volumine | Contentæ."; [1]-600, Text of dissertations.

[Vol 5] [2 pgs], Title page, verso blank.; [1 pg], Dedication to Erico von Stockenström.; [1 pg], "Disserationes | In Quinto Volumine | Contentæ."; [1]-483, Text of dissertations.; [3 pgs], "Index | Disserta- | tioum."; [5 pgs], "Catalogus."

[Vol 6] [2 pgs], Title page, verso blank.; [1 pg], Dedication to Petro Bagge.; [1 pg], "Disserationes | In Sexto Volumine | Contentæ."; [1]-486, Text.

[Vol 7] [2 pgs], Title page, verso blank.; [1 pg], Dedication Carol. Frid. Scheffer.; [1 pg], "Disserationes | In Septimo Volumine | Contentæ."; [1]-506, Text.; [2], "Edi-

## LIPEN

tiones | Operum Auctoris.”

[Vol 8] [2 pgs], Title page, verso blank.; [1 pg], Dedication Dedication to Joseph Banks.; [1 pg], “Dissertationes | In Octavo Volumine | Contentæ.”; [1]-332, Text.

[Vol 9] [2 pgs], Title page, verso blank.; [3 pgs], “L.B.S. | Editor.”; [1 pg], “Dissertationes | In Nono Volumine | Contentæ.”; [1]-331, Text.; [1 pg], Blank.

[Vol 10] [2 pgs], Title page, verso blank.; [1 pg], Dedication to Xaverio L.B. a Wulfen.; [1 pg], “In Decimo Volumine | Continentur.”; [2 pgs], “Index Tabularum Ænearum | Voluminum I-X.”; [2 pgs], Preface.; [1]-170, Text.

VERY SCARCE. The *Amoenitates Academicæ*, or “Academic Amenities” is a collection of the 185 academic dissertations to which Linnaeus’ name is given as Praeses. The word Praeses in modern academic terminology is approximately equal to “thesis adviser.” One additional dissertation is included in the collected edition for which Linnaeus’ son acted as Praeses. These dissertations however, contain nothing but the results of Linnaeus’ own ideas and research. In the eighteenth century professors dictated most of the theses to their students and only rarely did a candidate for a degree author the the work himself. The student did have to put the text into good or passable Latin and this was often not an easy task when the subject was complicated. The candidate also had to pay for the publication of the thesis.

The *Amoenitates Academicæ* has an extremely involved bibliography which was fully captured by Soulsby (1933). For a discussion of the authorship of the individual dissertations see Stearn 1957 (pp. 51-64) where a list of the individual dissertations is given. Each of the individual monographs was also issued separately in small editions.

REFERENCES: Buckman, *Catalog of a Linnaeus Exhibition*, 1957: no. 61. • Soulsby, *Catalogue of the Works of Linnaeus*, 1933-6: no. ?? • Stafleu & Cowan, *Taxonomic Literature*, 1976-88: no. 4754. • Stearn, W.T., “Introduction,” in: Linnaeus’s *Species Plantarum* (1957-9). [Facsimile edition, with the 170 page introduction.].

**3102. 1787-90:** *Amoenitates Academicæ seu dissertationes variae physicae, medicae botanicae antehac seorsim editae nunc collectae et auctae ... curante D.J.C.D. Schrebero.* Erlangae, J.J. Palm, 1787-1790.

10 volumes. Royal-8vo. With 65 (55 folded) engraved plates (printed on 61 leaves).

VERY SCARCE. Soulsby 1283, 1289, 1294, 1298, 1302, 1306, 1310-1317.

REFERENCES: Soulsby, *Catalogue of the Works of Linnaeus*, 1933-6: no. ??.

## LION, G.

### 3103. — French, 1891.

Traité Élémentaire | De | Cristallographie | Géométrie | A L’Usage | Des Candidats A La Licence Et Des Chimistes | Par | G. Lion | [rule] | Paris | Georges Carré, Éditeur | 58, Rue Saint-André-des-Arts, 58 | [short rule] | 1891.

8°: [i]-xi, [1], [1]-148 p., illus. PAGE SIZE: 160 x 230 mm.

CONTENTS: [i-ii], Half title page, “Traité Élémentaire | De | Cristallographie Géométrie,” verso “Tours.—Imprimerie Des Lis Frères.”; [iii-iv], Title page, verso blank.; [v], “Préface.”—signed G. Lion.; [vi], Blank.; [viii]-xi, “Avant-Propos.”; [1 pg], Blank.; [1]-132, Text.;

[133]-136, “Note I. Interprétation physique de la loi de rationalité.”; [137]-148, “Note II. Transformation des axes et des caractéristiques.”

VERY SCARCE. A standard treatise on the elements of crystallographical science written for university level students in science and chemistry. Its focus is on the geometrical forms, but includes some theoretical background. It is illustrated through out with crystal drawings and diagrams.

REFERENCES: BL. • NUC.

**LIPEN (Lipenius), Martin.** (BORN: Göritz, Mark Brandenburg, Germany, 11 November 1630; DIED: Lübeck, Germany, 6 November 1692) *German educator & philology.*

Lipen was an administrator at the Gymnasium of Halle (1659), rector at Stettin (1672), finally returning to school administration at Lübeck (1676).

REFERENCES: ADB. • DBA: I 770, 71-77. • Gerber, *Historisch-biographisches Lexikon*, 1812-4. • Jöcher, *Gelehrten-Lexikon*, 1750-51. • Poggendorff: 1, col. 1475. • WBI.

### 3104. — Latin & German, 1684 [Dissertation].

ΛΙΘΟΛΟΓΙΑ | f. | Consideratio | Lapidum | Physica | sub patrotnio | Amplissimi & Clarissimi | Dn. M. Martini | Lipenii, | Regii Gymnasii Carolini, qvòd Ste- | tini tunt erat, Rectoris & Professoris Phi- | losophiæ publici, | publicæ Disquisitioni | submissa | â | Gvilhelmo Reutzio, | Sedinensi, | Anno M. DC. LXXIV. d. XII, Augusti | [ornate rule] | nunc denuò recusa | impensis Christoph. Erii Ebélii, | Anno M DC LXXXIV. | Hildesheimii, Johann Ludolphi Ebélii.

4°: A-D<sup>4</sup>; 16ℓ.

RARE. Dissertation submitted by Guilelmus Reutzius [*fl.* 1674-1684]. It appeared earlier natural history dissertation at the Gymnasium at Stettin in 1674. The text written in Latin and German considers minerals as physical objects and organizes them by external characters.

REFERENCES: Gatterer, *Mineralogischen Literatur*, 1798-9: 2, 9. • *Katalog Bergakademie Freiberg*, 1879: p. 549 [VI. 166.]. • LKG: XII 2 & 3. • VD17: 32:651483N.

### 3105. — Latin, 1684 [Dissertation].

ΟΡΟΛΟΓΙΑ | i.e. | Disputatio Physica | De | Montibus, | quam | Anno M. DC. LXXV. d. XVI. Septembr. | Stetini | Sub Præsidio | Viri Clarissimi & Excellentissimi | Dn. M. Martini | Lipenii, | Rectoris Et Professori | in Regio Gymnasio Carolino, | publicè habuit | Nathanael Grünberg/ | Dantiscanus. | [ornate rule] | Rostochii, | Typis Jacobi Richelii, Senat. Typogr. | Anno M DC LXXXIV.

4°: A-C<sup>4</sup>; 12ℓ.

RARE. This dissertation by Nathanael Grünberg [*fl.* 1684] gives observations on mountains. It also appeared under a Hildesheim imprint in 1684.

REFERENCES: LKG: XIII 19. • VD17: 1:054826T.

**LIPP, Andreas.**

Lipp was professor of chemistry at the technical high school in Munich.

REFERENCES: Poggendorff: 3, 818-819, 4, 894-895 and 5, 751.

**3106. — German, 1898** [First edition].

Lehrbuch der Chemie und Mineralogie für den Unterricht an Mittelschulen. Mit 127 Textabb. und Spektraltafel. München und Leipzig, Wolff, 1898.

8°: viii, 348 p. VERY SCARCE.

**3107. 2nd edition, 1903/11:** Lehrbuch der Chemie und Mineralogie für den Unterricht an höheren Lehranstalten. Mit 128 Textabbildungen und einer Spektraltafel. Stuttgart und Berlin, Grub 1903/11.

8°: viii, 360 p. VERY SCARCE.

**3108. 3rd edition, 1905:** Lehrbuch der Chemie und Mineralogie für den Unterricht an höheren Lehranstalten. Mit 130 in den Text gedruckten Abbildungen und einer Spektraltafel. 3., verbesserte Auflage. Stuttgart, Grub, 1905.

8°: viii, 362 p. VERY SCARCE.

11th edition, 1928.

**3109. 4th edition, 1910:** Lehrbuch der Chemie und Mineralogie für den Unterricht an höheren Lehranstalten von Dr. A. Lipp. Vierte, verbesserte Auflage. Stuttgart und Berlin, Grub, 1910.

2 parts. [Part 1] 8°: viii, 171 p., 96 illus. [Part 2] 8°: iv, 207 p., 36 illus. VERY SCARCE.

**3110. 1915:** Lehrbuch der Chemie und Mineralogie für den Unterricht an höheren Lehranstalten. Stuttgart und Berlin, Grub, 1915.

8°: 2 Bände und Beilagenheft. VIII, 172 S., 1 Blatt; 205 Seiten. Mit 130 Textabbildungen. VERY SCARCE.

**3111. 7th edition, 1918:** Lehrbuch der Chemie und Mineralogie. Für den Unterricht an höheren Lehranstalten. 1./2. Teil. 7.Aufl. Stuttgart und Berlin, Grub, 1918.

2 parts. (I) 160 p., 110 illus.; (II) 205 p., 33 illus. VERY SCARCE.

**LIPPERT, Xaver Joseph.** *German physician.*

REFERENCES: DBA: I 770, 361. • Hamberger & Meusel, *Gelehrte Deutschland*, 1796-1834. • WBI.

**3112. — Latin, 1782.**

Phlogistologia Mineralis, seu Consideratio Phlogistorum Mineralium. Viennæ, 1782.

8°: 64 p.

EXTREMELY RARE. A work apparently exploring the phlogiston component of minerals.

REFERENCES: Dryander, *Catalogus Banks*, 1796-1800: 4, p. 168. • *Katalog Bergakademie Freiberg*, 1879: p. 54. • LKG: XVI 2.

**LISTER, Martin.** (BORN: 1638?; DIED: 1712) *English zoologist.*

REFERENCES: Allibone, *Dictionary of English Literature*, 1859-71. • BBA: I 691, 323-353. • Poggendorff: 1, cols. 1477-8. • Waller, *Dictionary of Universal Biography*, 1857-63. • Watt, *Bibliotheca Britannica*, 1824. • WBI.

**3113. — Latin, 1678.**

[Contained within a double rule box:] Martini Lister | E | Societate Regia | Londini | Historiæ | Animalum Angliæ | Tres Tractatus. | Unus De | Araneis. | Alter De | Cochleis | Tum Terrestribus | tum Fluviatilibus. | Tertius De | Cochleis

Mainis. | Quibus adjectus est Quartus de Lapidibus ejusdem In- | sulæ ad Cochlearum quandam imaginem figuratis. | Memoriae & Rationi. | [double rule] | Londoni, | Apud Joh. Martyn Regiæ Societatis Typographum, ad insigne | Campanæ in Cœmeterio D. Pauli, 1678.

8°: A<sup>3</sup> B-Ii<sup>4</sup> Kk<sup>2</sup>; 127ℓ.; [6], 1-250, [2] p., 9 plates. CONTENTS: [2 pgs/=A1], Title page, verso blank.; [4 pgs/=A2r-A3v], "Lectori S."; 1-250 (=B1r-Ii4v Kk1), Text.; [1 pg/=Kk2r], "Typographorum ... (=errata); [1 pg/=Kk2v], Blank.

RARE. The second book has special title page (p. [101]): Cochlearum Angliæ et terrestrium et fluviatilium liber.

Appears to deal exclusively with shells and mollusks, including fossil varieties.

**Appendix, 1681:** Appendix | ad | Historiæ | Animalium Angliæ | Tres Tractatus, &c. | Continens | Addenda & Emendanda. | [rule] | [...2 lines of quotation signed Aristotle...] | [rule] | Eboragi: | Sumptibus Authoris, M. DC. LXXXI.

**2nd edition, 1695:**

REFERENCES: LKG: XVII 123.

**LIVERSIDGE, Archibald.** (BORN: Turnham Green, England, 17 November 1847; DIED: 26 September 1927) *English chemist & mineralogist.*

Liversidge became professor of chemistry and mineralogy at the University of Sydney, New South Wales from 1873-1908. Founding member of the Australasian Association for the Advancement of Science.

REFERENCES: *Australasian Biographical Archive*: 226, 276-288. • *Australian Dictionary of Biography*. • Barr, *Index to Biographical Fragments*, 1973: 158. • BBA: I 692, 439-447; II 1618, 333-334. • Cleavelly, *World Palæontological Collections*, 1983: 187. • *Journal of the Royal Society, New South Wales*: 62 (1929), 8-10. • *Mineralogical Magazine*: 22 (1930), no. 131, 397-8, portrait. • *Nature*: 120 (1927), 625-6. • Poggendorff: 3, 822 & 4, 989. • *Proceedings of the Royal Society of London*: A126 (1930), xii-xiv, portrait. • *Quarterly Journal of Geological Society of London*: 84 (1928), iv. • Sarjeant, *Geologists*, 1980: 3, 1590 & Suppl. 1 (1986), 2, 599. • *Times*: 28 September 1927. • WBI. • *World Who's Who in Science*: 1055.

**3114. — English, 1876** [First edition].

[Contained within a double rule box:] Minerals | of | New South Wales. | [rule] | Archibald Liversidge, | [...2 lines of titles and memberships...] | [double rule] | Sydney: | Thomas Richards, Government Printer, Phillip-Street. | [rule] | 1876.

8°: A-D<sup>8</sup>; 32ℓ.; [1]-63, [1] blank p. Brown or gray paper wraps with the cover title as above.

CONTENTS: [1], Introduction.; 2-30, "Part I. | Metallic Minerals."; 31-57, "Part II. | Non-Metallic Minerals."; 58-63, "List of Minerals mentioned in the foregoing Paper."; [1 pg], Blank.

RARE. A complete list of the minerals of New South Wales, with descriptions of specimens he himself had examined. The occurrences of gold are described in detail, with an enumeration of some of the larger nuggets that had been found.

REFERENCES: *American Journal of Science*: 3rd Series, 13 (1877), 162 [by E.S. Dana]. • Dana's 7th (Bibliography): 76. • Ferguson, *Bibliography of Australia*, 1941-69: 6, 456, no. 11669.

## LOBKOWITZ

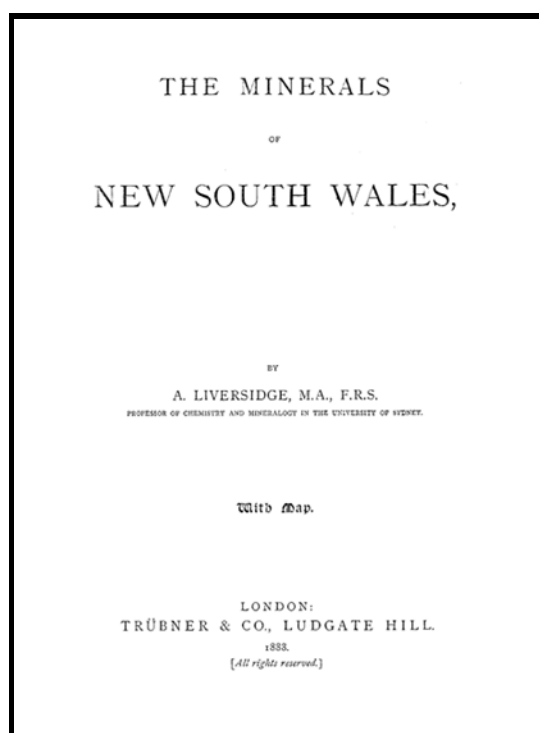
**3115. 2nd edition, 1882:** The Minerals Of New South Wales. | By | Archibald Liversidge, F.R.S., | ... | [double rule] | Second edition.

4°: 137, [1], xiv p.

RARE. This monograph on the minerals of New South Wales Australia forms part of a volume published by the Department of Mines. Also contained are a report by Harrie Wood on the Mineral Products of New South Wales, and Notes on the Geology of New South Wales by C.S. Wilkinson.

The work by Liversidge contains a description of the minerals of the country, arranged in order, with numerous analyses. A list of the known localities for each species is also given. The gold fields are also given a full description, together with interesting facts regarding the discovery of the larger nuggets.

REFERENCES: *American Journal of Science*: 3rd Series, **26** (1883), 76-7. • Dana's 7th (Bibliography): 76. • Ferguson, *Bibliography of Australia*, 1941-69: **6**, 457, no. 11669a.



MINERALS OF NEW SOUTH WALES, 1888

**3116. 3rd edition, 1888:** The Minerals | Of | New South Wales, | Etc. | By | A. Liversidge, M.A., F.R.S. | Professor Of Chemistry And Mineralogy In The University Of Sydney. | With Map. | London: | Trübner & Co., Ludgate Hill. | 1888. | [All rights reserved.]

8°: [i]-viii, [1]-326, [2] p., frontispiece (folding, colored map title, "A Mineral Map."), illus., diagrams. COLOPHON: Printed by Ballantyne, Hanson and Co. Edinburgh and London. PAGE SIZE: 250 x 160 mm.

CONTENTS: [i-ii], Half title page, "The Minerals | Of | New South Wales," verso blank.; [Frontispiece: folding, colored map]; [iii-iv], Title page, verso "Ballantyne Press..."; [v]-viii, "Contents."; [1]-206, Text.; 207-290, "Appendix."; 291-305, "Alphabetical List of Mineral Localities."; 306-320, "Mineral Localities Arranged According to Counties."; 321-326, "Index Of Minerals."; [2 pgs], Advertisements.

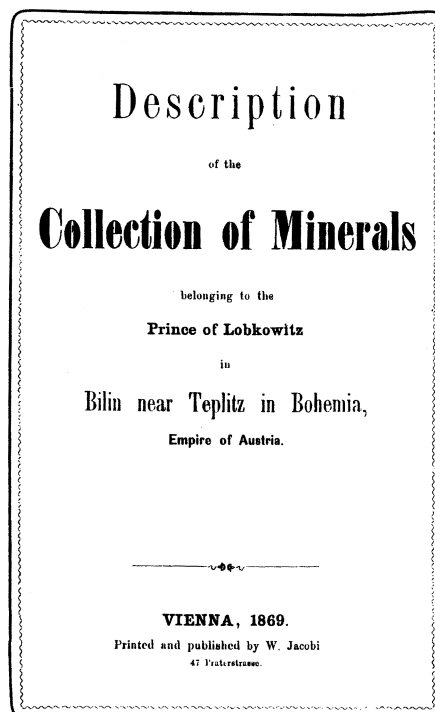
VERY SCARCE. A thorough well digested work on the local mineralogy of a large area of the Australian continent that is of great value to the mineralogical student. The author had already published two earlier memoirs on this subject, but this third edition has a much wider scope and constitutes the best edition of this work. The subjects of the metals, as gold, silver, copper, tin, are treated with especial fullness and have more than a local interest. Liversidge has also included the results of his own original work on many of the species. A large and well executed colored mineral map forms the frontispiece to this unusually handsome volume. A scarce work.

REFERENCES: *American Journal of Science*: 3rd Series, **38** (1889), 166. • Dana's 7th (Bibliography): 76. • Ferguson, *Bibliography of Australia*, 1941-69: **6**, 457, no. 11671.

**LOBKOWITZ, Josef Franz Maximilian.** (BORN: 1772; DIED: 1816) *Hungarian aristocrat.*

Hungarian prince in Bisin near Töplitz. Lobkowitz assembled an enormous collection of minerals, which was expanded by his son, Prince Ferdinand Josef Lobkowitz [1797-1868].

REFERENCES: DBA: I 773, 225-230. • Papp, G. and H. Vincze-Szeberényi, "The Duke Lobkowitz collection," *Annals of the History of Hungarian Geology, Special Issue*, **3** (1991), 63-6. • Schenkenberg, *Die lebenden Mineralogen*, 1842. • WBI. • Wilson, *History of Mineral Collecting*, 1994: 181. • Wrany, *Pflege der Mineralogie in Böhmen*, 1898. • Wurzbach, *Biographisches Lexikon Österreich*, 1856-91.



DESCRIPTION, 1869

**3117. — English, 1869** [Collection catalog].

[Contained within a double rule ornamental box:] Description | of the | Collection of Minerals | belonging to the | Prince of Lobkowitz | in | Bilin near Teplitz in Bohemia, | Empire of Austria. |

[ornate rule] | Vienna, 1869. | Printed and published by W. Jacobi | 47 Praterstrasse.

8°: [1]-12 p. PAGE SIZE: 210 x 146 mm.

CONTENTS: [1-2], Title page, verso blank.; [3]-4, "The Collection of Minerals of the Prince of Lobkowitz contains the following Divisions: | ..."; 5-12, "The oryklognostic collection is arranged | after Mohs's system."; [P. 12], Signed Jos. Rubesch, 20 February 1869, translated from the German by H. Berger.

RARE. Sale prospectus for the enormous mineralogical collection assembled by the Hungarian Princes Lobkowitz [see note below]. Purchased in 1870 for 35,000 florins by the Hungarian National Museum, it was called at the time "the greatest and most impressive private geological collection of the Austro-Hungarian monarchy." It numbered 41,217 specimens weighing a total of 80 tons, and having been built at an original cost of over 100,000 florins. In 1956, fire destroyed approximately 80The last page of the prospectus indicates that it was translated from the German. It is written in such a nature that it could easily have also been translated into other languages such as French or Hungarian.

REFERENCES: Petersen, *World Directory of Mineral Collections*, 1994: 135. • Schenkenberg, *Die lebenden Mineralogen*, 1842. • Wilson, *History of Mineral Collecting*, 1994: 46, 47, 110, 112, 181 & 217. • Wrany, *Pflege der Mineralogie in Böhmen*, 1898.

**LOCHNER, Michael Rupert.** (BORN: Nürnberg, Germany, c1696; DIED: Nürnberg, Germany, 1715) *German author.*

Son of the physician, Johann Heinrich Lochner von Hummelstein, Michael authored six works before his premature death at the age of 19, including an account of Besler's Museum.

Rariora Musei Besleriani quæolim B. et M.R. Besleri collegerunt, &c. ([Nürnberg], 1716).

See: Besler, Basilius.

**LOCHNER, Zacharias.** (BORN: Ingolstadt, Bavaria, Germany, ; DIED: Nuremberg, Germany, 22 January 1608) *German mathematician.*

Lochner was an author and lecturer in Nuremberg.

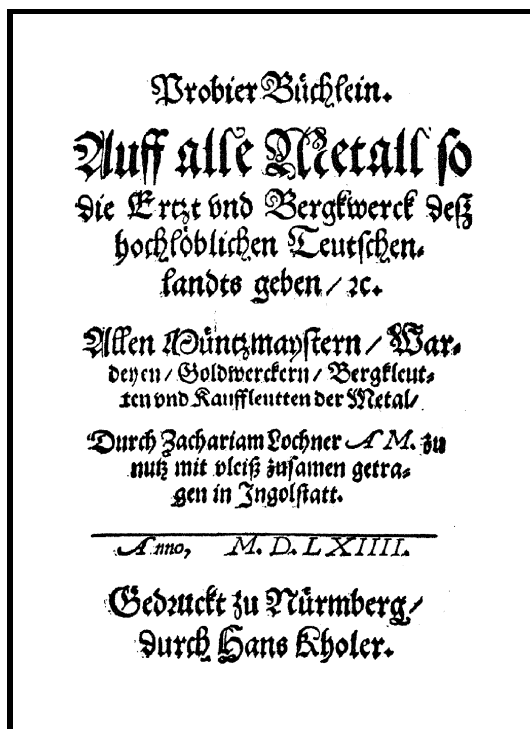
REFERENCES: Jöcher, *Gelehrten-Lexikon*, 1750-51. • Poggendorff: 1, col. 1484. • WBI.

**3118. — German, 1564** [First edition].

Probir Büchlein. | Auff alle Metall so | die Ertzt vnd Bergwerck desz | hochlöblichen Teutschen= | landts geben / 1c. | Allen Müntzmaystern / War= | deyen / Goldwerckern / Bergkleut= | en vnd Kauffleutten der Metal/ | Durch Zachariam Lochner A.M. zu | nutz mit vleiß zusammen getra= | gen in Ingolstatt. | [rule] | Anno, M.D.LXIII. | Gedruckt zu Nürnberg/ | durch Hans Kholer.

4°: 60 unnumbered $\ell$ . (the last blank).

EXTREMELY RARE. An early edition of the first work giving practical instruction in the art of assaying, and therefore of tremendous importance to the early development of mineral chemistry. This is the first issue of the book to have the name of its editor printed on the title page. Sisco and Smith located only the



PROBIER BÜCHLEIN AUFF ALLE METALL, 1564

Darmstädter copy in Werner's library at the Freiberg Bergakademie (dated 1565), which could not be located in 1942. For a detailed description of this class of book, see under Rülein von Calw and Probir Büchlein.

REFERENCES: Darmstädter, *Berg-Büchlein*, 1926: p. 87. • Jonathan Hill, Bookseller: cat. 64, no. 91. • Sisco & Smith, *Bergwerk- und Probirbüchlein*, 1949: p. 174 [Edition K].

**3119. 2nd edition, 1565:** Probir Büchlein. | Auff alle Metall/ so die | Ertzt vnd Bergwerck des hochlobli= | chen Teutschen Landts | geben / 1c. | Allen Müntzmeystern / Wardeyen | Goldwerckern / Bergkleutten vnd | Kauffleutten der Metall. | Durch Zachariam Lochner A.M. zu | nutz mit fleyß zusammen getra= | gen in Ingolstatt. | [rule] | Anno M. D. LXV. | Getruckt zu Augspurg/ durch | Mattheum Francken. | [ornament].

4°: 51 $\ell$ . Title page in red and black. Essentially a reprint of the 1564 edition, with the text reset. EXTREMELY RARE.

REFERENCES: BL: [C.106.d.25.]. • Darmstädter, *Berg-Büchlein*, 1926: p. 88. • Katalog Bergakademie Freiberg, 1879: p. 415 [IV. 718.]. • Sisco & Smith, *Bergwerk- und Probirbüchlein*, 1949: p. 175 [Edition L]. • VD16: L-2243.

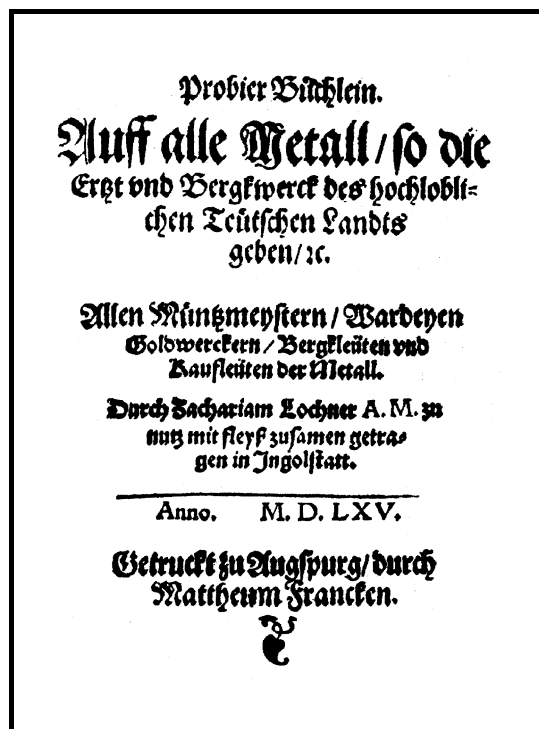
**LOEHR, Johann Andreas Christian.** *German priest.*

REFERENCES: ADB. • DBA: I 15, 268-269; 776, 141-164; 868, 375; 1369, 134. • Hamberger & Meusel, *Gelehrte Teutschland*, 1796-1834. • Neuer Nekrolog der Deutschen. • WBI.

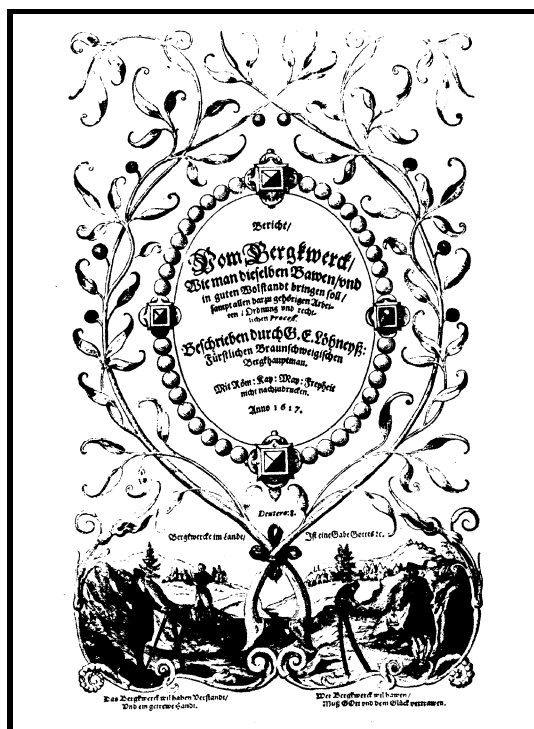
**3120. — German, 1817.**

Gemeinnützige und vollständige Naturgeschichte für Liebhaber und Lehrer: das Mineralreich. Nebst Register über das ganze Werk. Liepzig, G.





PROBIER BÜCHLEIN, 1565



BERICHT VOM BERGWERCK, 1617

Fleischer, 1817.

8°: vii, 470 p. RARE.

**LÖHNEYSEN, Georg Engelhard von.** (BORN: 1552; DIED: c1625) *German artist.*

REFERENCES: ADB: 19, 133. • DBA: II 824, 172. • Drugulin, *Sechstausend Portraits*, 1863: no. 3419. • DSB: 8, 464-5. • ISIS, 1913-65: 2, 107. • Thieme & Becker, *Allgemeines Lexikon*, 1907-50. • WBI. • *World Who's Who in Science*: 1737.

**3121. — German, 1617** [First edition].

[Contained within an elaborate ornamental wood cut:] Bericht | vom Bergkwerck, | wie man dieselben bawen, | und in guten Wolstandt bring= | gen soll, sampt allen darzu | gehörigen Arbeiten, Ordnung | vund rechtlichen Process. | Beschreiben | durch | G.E. Löhneyss.

2°: )(2 O4 (?)2):(2 A-Uu4; ??l.; [24], 1-76, [76-80], 81-82, [83-84], 85-299, [1], [300-302], 303-321[1], [322-328], 329-343 (i.e., 363), [1] p., woodcut engraved title page, 16 double-page woodcut plates. COLOPHON: Gedruckt zum Zellerfeldt Anno 1617. PAGE SIZE: 325 x 210 mm.

CONTENTS: [Engraved title page]; [3 pgs], Dedication to Friedrich Ulrich, dated 27 March 1617.; [1 pg], "Dispositio."; [15 pgs], "Register."; [1 pg], Blank.; 1-343, Text.; [1 pg], Blank.

RARE. Printed at the author's own press, this work, which ranks with Agricola, is among the rarest of the early mining books. It was the first and only book printed at Zellerfeld, due to the destruction of

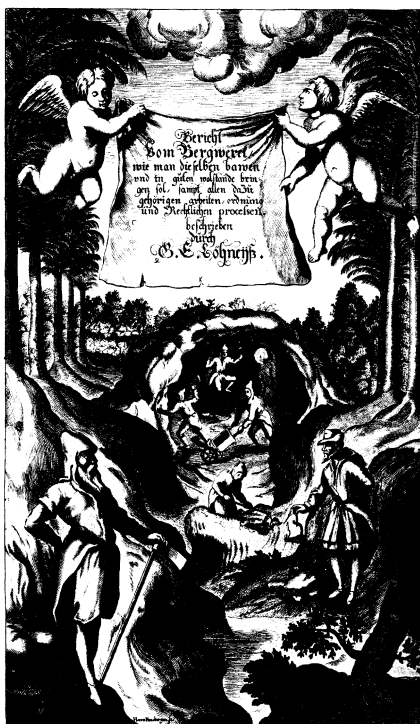
the press and most of the first edition during the thirty years war. Löhneysen designed the plates, woodcuts and initials, employing as engraver of the cuts the German Moses Thym. The plates illustrate the construction, machinery and work in the mines, the processes of metallurgy, etc. Especially valuable for giving an accurate description of German mining and metallurgical methods at the beginning of the XVII century.

REFERENCES: Darmstädter, *Berg-Büchlein*, 1926: no. 98. • *Freilich Sale Catalog*: no. 364. • Hoover Collection: no. 543. • Nagler, *Neues allgemeines Künstler-Lexikon*, 1835-52: Monograph. IV, 2187. • Prandtl, W., ["Löhneyss"], *Zeitschrift für Bücherfreunde*, 39 (1935), 15-22 [Discussion of the early editions of Löhneyss' *Bericht vom Bergwerck*]. • Wellcome Catalog (Books): 1, no. 3842.

**3122. 2nd edition, c1660:** Bericht von Bergwercken, wie man dieselbigen nützlich und fruchtbarlich bauen, in glückliches Auffnehmen bringen, und in guten Wolstand beständig erhalten ... Sampt beygefügter nützlicher Berg-Ordnung, und Bericht von der Bergleute Verrichtung und Freyheiten. Allen denen, so Bergwercke bauen, und dabey interessirt sind, zu Dienst und Gefallen auffs neue wiederrumb an den Tag gegeben. Stockholm und Hamburg: In Verlegung Gottfried Liebezeits, gedruckt in Leipzig bey Christopff Günthern, [c1660].

2°: 192l., with engraved title page and 16 folding plates. Reprint of the first edition, with engravings by Joachim Wichman replacing Löhneyss' woodcuts. VERY SCARCE.

REFERENCES: Darmstädter, *Berg-Büchlein*, 1926: no. 99. • *Freilich Sale Catalog*: no. 365. • Prandtl, W., ["Löhneyss"], *Zeitschrift für Bücherfreunde*, 39 (1935), 15-22 [Discussion of the early editions of Löhneyss' *Bericht vom Bergwerck*].



GRÜNDLICHER, 1690

**3123. 3rd edition, 1690:** Gründlicher und ausszführlicher Bericht von Bergwercken, wie man dieselbigen nützlich und fruchtbarlich bauen, in glückliches Aufnehmen bringen, und in guten Wolstand beständig erhalten ... Sampt beygefügt nützlicher Berg-Ordnung, und Bericht von der Bergleute Verrichtung und Freyheiten. Allen denen, so Bergwercke bauen, und dabey interessirt sind, zu Dienst und Gefallen auff's neue wiederrumb an den Tag gegeben. Stockholm und Hamburg: In Verlegung Gottfried Liebezeits, gedruckt in Leipzig bey Christopff Günthern, 1690.

2<sup>o</sup>: π<sup>1</sup> (2) (4 2) (4 A-Uu<sup>4</sup>; ??ℓ.; [22], 1-343 (i.e., 363), [1] p., 16 folding plates (showing mining scenes). Engraved title page (not included in pagination). PAGE SIZE: 320 x 198 mm. VERY SCARCE.

CONTENTS: [Engraved title page]; [2 pgs], Printed title page, verso blank; [3 pgs], Dedication to Friedrich Ulrith; [1 pg], "Dispositio."; [15 pgs], "Register."; [1 pg], Blank; 1-343, Text; [1 pg], Blank; [At end], 16 folding plates.

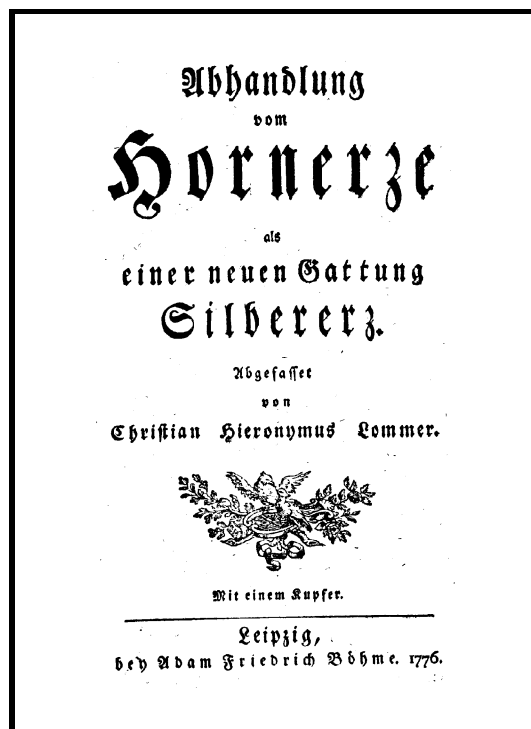
REFERENCES: Hoover Collection: no. 544. • Nagler, *Neues allgemeines Künstler-Lexikon*, 1835-52: Monograph. IV, 2187. • Prandtl, W., ["Löhneyss"], *Zeitschrift für Bücherfreunde*, 39 (1935), 15-22 [Discussion of the early editions of Löhneyss' *Bericht vom Bergwerk*].: *Zeitschrift für Bücherfreunde*: 39, 15-22. - Discusses the first edition of Löhneysen.

**LOMMER, Christian Hieronymus.** *German mining expert.*

REFERENCES: ADB. • DBA: I 780, 59-60. • Jöcher, *Gelehrten-Lexikon, Supplement*. • Meusel, *Verstorbenen Teutschen Schriftsteller*, 1802-16. • Poggendorff: 1, col. 1493. • WBI.

**3124. — German, 1776.**

Abhandlung | vom | Hornerze | als | einer neuen



ABHANDLUNG VOM HORNERZE, 1776

Gattung | Silbererz. | Abgefasset | von | Christian Hieronymus Lommer. | [ornament] | Mit einem Kupfer. | [rule] | Leipzig, | bey Adam Friedrich Böhme. 1776.

8<sup>o</sup>: A-D<sup>8</sup> E<sup>3</sup>; 35ℓ.; [1]-66, [4] p., one folding plate (6 figures of silver containing minerals). PAGE SIZE: 202 x 127 mm.

CONTENTS: [1-2], Title page, verso blank; [3-4], Dedication, dated 5 March 1776.; [5]-66, Text.; [3 pgs], "Inhalt."; [1 pg], "Druckfehler."

RARE. A description of the mineralized forms of the silver chloride and bromide mineral species found in the German mines. Because of their particular crystallization characteristics, they resembled the horns of animals when encountered in the mines, hence the nickname given by the miners "horn-silver". The first portion of the text recounts the history of hornerzes, including its first discovery, the origin of the name, its occurrence, and the probably origin of the ore in the mines. The second portion provides a natural history of the species including external characteristics and its forms and crystal structure. The plate shows 6 figures of various crystallized specimens.

REFERENCES: LKG: XVI 294.

**3125. — German, 1785.**

Beitrag zu der Preisfr.: Wie waren die Bergwerke der Alten beschaffen? etc. Freiberg, 1785.

8<sup>o</sup>: VERY SCARCE.

REFERENCES: LKG: II 8.



LOMONOSOV

**LOMONOSOV, Mikail Vasilievich.** (BORN: Deniskova [now Lomonosov] near Archangel, Russia, 8 November 1711; DIED: St. Petersburg, Russia, 4 April 1765) *Russian polymath.*

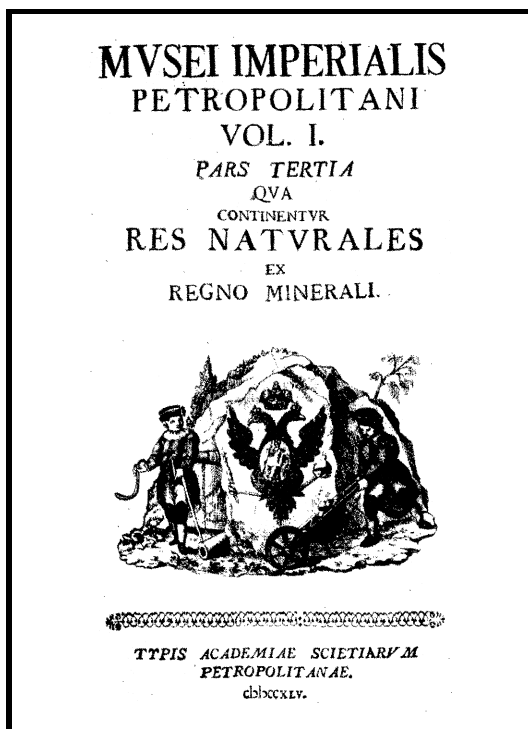
Lomonosov's father was a farmer and fisherman, and as a youth he travelled the northern seas. Early on he learned to read and write. In 1730, he travelled by foot to Moscow where he studied ancient languages in the city's academy. In 1736 having shown himself to be one of the best students, he was first sent to the St. Petersburg Academy of Science and then for three years to Marburg University in Germany where he was instructed by the philosopher Christian Wolff [1679-1754]. In 1739, Lomonosov travelled to Freiberg in Saxony to work in the laboratory of JOHANN FRIEDRICH HENCKEL. There he became immersed in problems of mineralogy, mining and metallurgical chemistry. He returned to St. Petersburg in 1741. Lomonosov was made an associate professor of physics at the academy in 1742, followed by a professor of chemistry in 1748. From this post, he opened in 1745 the first chemical laboratory in Russia, and in 1758 became director of the geographical department.

Through out his career at the St. Petersburg Academy, Lomonosov was continuously fighting the imported European scientists to make Russia a true scientific power. His belief was that his homeland was the equal of any country in Europe, but the dominance of foreigners on the committee disregarded his patriotic views.

REFERENCES: Anon., *Michaël Wassiljewitsch Lomonosow (1711 bis 1765)*. Leipzig, 1983. 137 p., 11 illus., map. [Published as: *Freiberger Forschungshefte*, D 157; Commemoration of Lomonosov's 270 birthday.]. • Barr, *Index to Biographical Fragments*, 1973: 160. • DSB: 8, 467-72. • *Encyclopaedia Britannica*, 11th edition. • *Great Chemists*: 201-210, portrait. • *ISIS*, 1913-65: 2, 108-11. • Lambrecht & Quenstedt, *Catalogus*, 1938: 267. • Moliavko, *Geologi Biograficheskii*, 1985: p. 162-4. • Pavlova, G.E. and A.S. Fedorov, *Mikhail Vasilievich Lomonosov: his life and work*. Edition revised from the 1980 Russian edition. Translated by A. Aksenov. Moscow, Mir, 1984. 312 p., illus. • Poggen-dorff: 1, cols. 1493-4. • Sarjeant, *Geologists*, 1980: 3, 1597-8, Suppl. 1 (1986), 2, 602 & Suppl. 2 (1995), 2, 851. • *World Who's Who in Science*: 1062. • Zvorykin, *Biograficheskii Slovar*, 1958: 1, 529-36, portrait.

### 3126. — Latin, 1741-5 [Collection catalog].

Mvsei Imperialis | Petropolitani | Vol. I. | Pars Tertia | Qva | Continentvr | Res Natvrales |



MVSEI IMPERIALIS PETROPOLITANI, 1745

Ex | Regno Minerali. | [vignette] | [ornate rule] | Typis Academiae Sciendarum | Petropolitanae. | c1745.

6 parts in 2 vols. [VOL 1, pars 1: 1742] 8°: ) (4 A-Mmm<sup>8</sup> Nnn<sup>2</sup>; ???; [8], [1]-755, [1] p. (Pars prima qua continentur res naturales ex regno animali. Petropolitanae, Acad. Scientiarum, 1742.) [VOL 1, pars 2: 1745] 8°: π<sup>1</sup> A-Tt<sup>8</sup>; ???; [2], [1]-636, [16] p. (Pars secunda, qua continentur res naturales ex regno vegetabili. Petropolitanae: Acad. Scientiarum, 1745.) [VOL 1, pars 3: 1745] 8°: π<sup>2</sup> A-O<sup>8</sup> P<sup>2</sup>; ???; [4], [1]-227, [1] p. (Pars tertia, qua continentur res naturales ex regno minerali. Petropolitanae, Acad. Scientiarum, 1745.) [VOL 2, pars 1: 1741] 8°: π<sup>2</sup> a-q<sup>8</sup>; ???; [4], [1]-212 p. (Pars prima, qua continentur res artificiales. Petropolitanae, Acad. Scientiarum, 1741.) [VOL 2, pars 2: 1745] 8°: π<sup>1</sup> r-hhh<sup>8</sup> ggg<sup>6</sup>; ???; [2] p., p. [213]-796 (i.e., 784), [3] p. (Pars secunda qua continentur Nummi antiqui. Petropolitanae, Acad. Scientiarum, 1745.) [VOL 2, pars 3: 1745] 8°: π<sup>1</sup> a-bb<sup>8</sup> χ<sup>1</sup>; ???; [2], [1]-477, [3] p. (Pars tertia, qua continentur nummi recentiores. Petropolitanae, Acad. Scientiarum, 1745.)

CONTENTS: [Vol 1, pars 1] [2 pgs], Title page, verso blank.; [6 pgs], "Syllabus | Thesavorum Anatomicorum." (=table of contents); [1]-755, Text.; [1 pg], Blank.

[Vol 1, pars 2] [2 pgs], Title page, verso blank.; [1]-636, Text.; [16 pgs], "Index."

[Vol 1, pars 3] [2 pgs], Title page, verso blank.; [1 pg], "Syllabus."; [1 pg], Blank.; [1]-227, Text.; [1 pg], Blank.

[Vol 2, pars 1] [2 pgs], Title page, verso blank.; [1 pg], "Syllabus | Rerum Artificialium."; [1 pg], Blank.; [1]-212, Text.

[Vol 2, pars 2] [2 pgs], Title page, verso blank.; [213]-796 (i.e., 784), Text.; [1 pg], "Syllabvs | Rervm Artificialvm."; [1 pg], Blank.; [1 pg], "Syllabvs | Nvmorvm Antiquorvm."; [1 pg], Blank.

[Vol 2, pars 3] [2 pgs], Title page, verso blank.; [1]-477, Text.; [1 pg], Blank.; [1 pg], "Syllabvs | Nvmorvm Recentiorvm."; [1 pg], Blank.

**EXTREMELY RARE.** In this the official catalogue of the imperial collections housed in St. Petersburg, the mineralogical portion was prepared by Lomonosov. It formed the fourth part of the general contents that also included scientific and musical instruments, and objects from the Middle East and the orient, especially China. It was written after Peter the Great's buying expeditions in Europe.

In 1724, Peter the Great placed his scientific collections under the administration of the St. Petersburg Academy of Sciences. Many of the mineralogical specimens survive today as part of the enormous gem and mineral collection preserved in the Fersman Mineralogical Museum, Moscow.

One of the first works that Lomonosov wrote on his return from Germany was the Catalogue of Minerals in which was a detailed description of the gems and fossilized stones collected in the minerals showroom in the Kunstkammer of the St. Petersburg Academy of Sciences. This work eventually became to a great extent the source for the successive theses of his on mineralogy, mining and metallurgy. The work he began in 1741 in compiling a catalogue of the mineral collections of the Academy of Sciences called for the careful study of many minerals and thus provided practical support for his ideas regarding the structure and the processes involved in the formation of crystals. In his dissertation, 'On the Origin and Nature of Saltpetre', which he wrote in 1749, Lomonosov gave a detailed version of his views on the structure of crystals. 'His conceptions of the structure of crystals formulated in this dissertation', wrote the well known crystallographer I. I. Shafranovsky, 'are so significant that the year this dissertation was written might well be considered the time of the origin of Russian scientific crystallography'.

REFERENCES: BL: [1044.a.1-6.]. • Grigorev & Shafranovskii, *Russkie Mineralogi*, 1949: [title page reproduced p. 61]. • Murray, *Museums*, 1904: 1, 182, 242 & 3, 152. • Wilson, *History of Mineral Collecting*, 1994: p. 125.

**3127. — Russian, 1757** [Collected works].

Sobranie | Raznykh Sochinenii | V Stikhakh I V Prozie | ... | Kniga Pervaia [-Vtoraia] ... Moscow, Pechatano pri Imperatorskom Moskovskom Universitetie, 1757-1759.

2 vols. [VOL 1: 1757] 4°:  $\pi^1$  A-Nn<sup>4</sup> Oo<sup>3</sup> (35-letter register); 200ℓ.; [2], 398 p., frontispiece (portrait of Lomonosov), 4 leaves of plates (some folding). [VOL 2: 1759] 4°: [10], 224, [2] p., illus.

**VERY RARE.** Collected works of Lomonosov published by Moscow University in 1757, the year of his death.

**Reprinted, 1768:** Sobranie raznykh sochinenii v stikhakh i v prozie. 1768. 2 vols. [DLC, PG3316 .A1



SOBRANIE RAZNYKH SOCHINENII, 1757

1768].

**Reprinted, 1795:** Sobranie raznykh sochinenii. 1795. 2 vols. [DLC, PG3316 .A1 1795].

REFERENCES: *Kilgour Collection of Russian Literature*: K655.1. • Pavlova, G.E. and A.S. Fedorov, *Mikhail Vasilievich Lomonosov: his life and work*. Edition revised from the 1980 Russian edition. Translated by A. Aksenov. Moscow, Mir, 1984. 312 p., illus: [referenced throughout, p. 105 reproduces the title page]. • *Svodnyi Katalog Russkoi Knigi*: no. 3730.

**3128. — Latin, 1757** [First edition].

Oratio | De | Generatione Metallorum | A Terra Motu, | Habita | In Solemni Conventu | Quo | Academia Scientiarum Imperialis | Diem Lvstricum | Elisabethae Avgvstae | Avtocratoris Omnium Rossiarum | Celebravit | IIX Id. Sept. Anno MDCCLVII. | Avctore | Michaelae Lomonosow | Consiliario et Professore Chymiae. | [ornate rule] | Petropoli | Typis Academiae Scientiarum.

4°:  $\pi^1$  A-C<sup>4</sup> D<sup>3</sup>; 15ℓ.; [2], [1]-28 p. PAGE SIZE: 214 x 180 mm. RARE.

CONTENTS: [2 pgs], Title page, verso blank.; [1]-28, Text.

REFERENCES: BL: [B.354.(3.)]. • Grigorev & Shafranovskii, *Russkie Mineralogi*, 1949: pp. 58-85. • NUC.

**3129. — Russian, 1763** [First edition].

Первыя Основанія | Металлургіи, | или | Рудныхъ Дѣлъ. | [ornament] | Въ Санктпетербургѣ | печатны при Императорской Ака-



PERVYIA OSNOVANIYA, 1763

деміи | Наукъ 1763 года.

[TRANSLITERATED TITLE:]

Pervyya Osnovaniya | Metallurgii, | ili | Rudnykh Del. | [ornament] | V Sanktpeterburge | pechamny pri Imperashchorskoĭ Akademii | Nauk' 1763 goda.

8°: 416 p., 8 plates (folding, engraved).

CONTENTS: Translated title: First essentials of metallurgy or the business of mining.

RARE. This is the most significant work dealing with aspects of mineralogy, mining and metallurgy published in 18th century Russia. Although Lomonosov supports several basic ideas that were first proposed by AVICENNA, the work displays an especially comprehensive display of mineralogical and geological details. Lomonosov classifies minerals into six categories: (1) metals, (2) semi-metals, (3) fatty minerals, (4) sulphur, (5) stones and earths and (6) ores. He emphasises the geological deposits of ores and gives suggestions for successfully locating other valuable formations. These observations include looking for rocks that appear broken over a good size area, looking for fragments of rock that are known to exist with ores, minerals that leave a residue of sulphur when heated, and sickly vegetation and trees that have pale leaf colors. Lomonosov was clearly among the first researchers to observe a substantial relationship between valuable minerals and their surrounding environment.

This work was written as a textbook and practical guide for workers at the mines. As such, Lomonosov

included everything that might be of use in the field. For example, Lomonosov provides details for various metallurgical processes used to extract metals from the ore. The work was considered so successful in its execution that copies were sent to the Ural Mountains, the Altai, and other mineralized areas throughout Russia.

REFERENCES: Freilich Sale Catalog: no. 368. • Grigorev & Shafranovskii, *Russkie Mineralogi*, 1949: pp. 58-85.

**3130. 2nd edition, 1796:** Пervyya Osnovaniya | Metallurgii, | ili | Rudnykh Del'. | [ornament] | V Sanktpeterburge | pechamny pri Imperashchorskoĭ Akademii | Nauk' 1796 goda.

[TRANSLITERATED TITLE:]

Pervyya Osnovaniya | Metallurgii, | ili | Rudnykh Del. | [ornament] | V Sanktpeterburge | pechamny pri Imperashchorskoĭ Akademii | Nauk' 1796 goda.

8°: 416 p., 8 plates (folding, engraved).

CONTENTS: Translated title: First essentials of metallurgy or the business of mining.

RARE. This second edition is essentially a reprint of the 1763 edition.

REFERENCES: Grigorev & Shafranovskii, *Russkie Mineralogi*, 1949: pp. 58-85.

### 3131. — Russian, 1763.

О СЛОЯХ ЗЕМНЫХ. [O Sloyakh Zemnykh.] St. Petersburg, 1763.

8°:

VERY SCARCE. "On the layers of the earth."

'On the Earth's Strata' (1763), which was the 'second supplement' to his classic book 'The Fundamentals of Metallurgy or Mining', he summarized his many years of work and arrived at some general conclusions.

REFERENCES: Grigorev & Shafranovskii, *Russkie Mineralogi*, 1949: pp. 58-85.

### LONDON. British Museum.

See: British Museum (natural History). Library.

### LONDON. Chemical Society.

See: Chemical Society Of London.

### LONDON. Geological Society.

See: Geological Society Of London.

### LONDON. Museum of Practical Geology.

See: Museum Of Practical Geology.

### Lonicerus, Adamus.

See: Lonitzer (lonicerus), Adam.

**Lonitzer (Lonicerus), Adam.** (BORN: Marburg, Germany, 10 October 1528; DIED: Frankfurt am Main, Germany, 29 May 1586) *German physician & botanist.*

Son of Johann Lonitzer [1499-1569], professor of theology and ancient languages at Marburg, Adam became a professor of mathematics in Nürnberg. In 1554, he was awarded a medical degree from the University in Mainz and became city physician in Frankfurt am Main. 1545-1546, began teaching at the Gymnasium in Frankfurt, but returned to Marburg because of disturbances caused by war. While a student in Mainz, he was a private tutor in the home of Dr. Wilhelm Osterod, professor of medicine at Mainz. 1553, professor of mathematics, University of Marburg. 1554-1586, appointed municipal physician in Frankfurt, at a salary of 40 gulden. He also

worked as a proofreader in the printing shop owned by his father-in-law, who specialized in reviving old herbals. After the death of Egenolf, Lonicerus inherited a share of the business, one of the most prosperous in Germany, and ran it with his brothers-in-law. 1554, he married the daughter of Frankfurt printer Christian Egenolph (d. 1533). He then inherited a share of this substantial business. Upon marrying Magdalena Egenolf, he became a citizen of Frankfurt. He dedicated the second part of his natural history (1555) to the city, and received a 10 taler honorarium. He also dedicated a 1573 book to the city.

REFERENCES: ADB: 19, 155-6. • *Nouvelle Biographie Générale* (Hofer). • NDB: 15, 147b-8b [by K. Maegdefrau]. • Nissen, *Herbals of Five Centuries*, 1958: 68. • Poggendorff: 1, col. 1495. • Roth, F.W.E., "Botaniker Eucharis Roesslin, Theod. Dorsten, und Adam Lonicer (1526-1586)," *Zentralblatt fuer Bibliothekswesen*: 19 (1902), 277-86.



NATURALIS HISTORIAE, 1551

### 3132. — Latin, 1551 [First edition].

*Naturalis Historiae Opus Novum. In Qvo Tractatur De Natvra Et Viribvs Arborvm, Frvticvm, Herbarvm, Animantium; terrestrium, uolatilium & aquatiliu: Item, Gemmarum, Metallorum, Succorum; concretorum, adeoq; de uera cognitione, delectu & usu omnium simplicium medicamentorum, quorum & Medicis & Officinis utus esse deber: Vnà cum eorundem ad uiuum effigiatis imaginibus. Ex utriusque linguae summorum uiuorum penetralibus, summo labore & studio conscripta, Per Adamum Lonicerum.*

*Accesservnt Qvædam De Stillatorum liquorum ratione, eiusque artis & Instrumentorum usu, atque de peculiaribus medicamentorum simplicium facultatibus. Cvm Indice, Qvintvplici: Græco, Latino, Germanico, Gallico, & morborum Medicinas continente. [ornament] Cum Gratia & Priuilegio Imperiali. Francofvrti, aAud Chr. Egenolphum.*

2 vols. in one. [VOL 1: 1551] 2°: α-γ<sup>6</sup> a-z<sup>6</sup> A-2N<sup>6</sup>; 390ℓ.; [36], 352, [2]ℓ. (printed as pages). [VOL 2: 1555] 2°: A-O<sup>6</sup> χ<sup>2</sup>; 86ℓ.; 64, [22]ℓ. (printed as pages). The text contains 749 woodcut illus. PAGE SIZE: 303 x 198 mm.

CONTENTS: [Vol 1] [ℓ. 1a-10a], De solo ac fundo; [ℓ. 10b-33b], De arboribus et fruticibus [Teil 1]; [ℓ. 33b-58b], De arboribus et fruticibus [Teil 2]; [ℓ. 59a-76b], De natura et viribus plantarum [Teil 1]; [ℓ. 77a-99b], De natura et viribus plantarum [Teil 2]; [ℓ. 100a-126b], De natura et viribus plantarum [Teil 3]; [ℓ. 127a-149a], De natura et viribus plantarum [Teil 4]; [ℓ. 149b-175b], De natura et viribus plantarum [Teil 5]; [ℓ. 175b-199b], De natura et viribus plantarum [Teil 6]; [ℓ. 200a-225b], De natura et viribus plantarum [Teil 7]; [ℓ. 226a-249b], De natura et viribus plantarum [Teil 8]; [ℓ. 249b-267a], De frumentis; [ℓ. 267b-287b], De animantibus terrestribus; [ℓ. 288a-309a], De avibus; De piscibus; [ℓ. 309b-336b], De metallis et lapidibus aliisque fossilibus; De lapidibus pretiosis; De succis concretis, quorum in medicinis est usus; [ℓ. 337a-(353b)], De arte stillatoria; De plantarum et aliarum rerum secundum gradus distinctione; Medicamenta peculiaria ad speciales corporis partes; De secundis medicamentorum simplicium facultatibus; De purgantibus simplicibus medicamentis; De ponderibus, quorum in medicinis est usus; [Errata].

[Vol 2] [ℓ. [1a]-19b], Titel; Praefatio; De plantis [Teil 1]; [ℓ. 20a-39a], De plantis [Teil 2]; [ℓ. 39b-59b], De plantis [Teil 3]; [ℓ. 60a-85b], Onomasticon plantarum, continens graecas, latinas, italicas, gallicas et germanicas nomenclaturas [etc.].

RARE. "Accesserunt quaedam de stillatitiorum liquorum ratione, eiusque artis & instrumentorum usu, atque de peculiaribus medicamentorum simplicium facultatibus. Cum indice quintuplici: Graeco, Latino, Germanico, Gallico, & morborum medicinas continente." Date of printing at the end of Praefatio (v. 1, recto of leaf [4]) and in colophon of v. 1 (recto of leaf [353]). Vol. 2 has special title: De plantarum, earumque potissimum, quae locis nostris rariores sunt ... Vol. 1: [36], 352, [2] leaves (printed as pages); v. 2: 64, [22] leaves (printed as pages). Text in Latin, with botanical and zoological pages also in German (Gothic font), Greek and French. Includes relevant poetry of various authors. Bibliographical references in the text.

With numerous woodcuts with contemporary hand coloring, depicting plants animals, gardening and mining operation, herbs, stills, etc., all explained in the text. A separate section shows a large variety of distilling apparatus. Contains 5 Indices: Greek, Latin, German, French and one of medical remedies.

REFERENCES: BL: [456.b.8.]. • Nissen (BBI): mo. 1229. • NLM 16th Century Books (Durling): no. 2848. • Wellcome Catalog (Books): 1, no. 3853.

### German editions

3133. German transl., 1557: Kreuterbüch, New Zügericht: Von Allerhand Bäumen, Stauden, Hecken, Kreutern,

# LONITZER

Früchten, unnd Gewürtzen, Eygentlicher Beschreibung der Gestalt, Unterscheyd der Geschlecht unnd Leblicher Abconterfaytung Sampt irem Natürlichen Gebrauch. . . : Auch Distillierens, Bereytschafft und Bericht. . . Item der fürnembsten Gethier, Vögel, und Fische, Mettallen, Edelgesteinen, Gebreuchlichen Gummi und Gestandenen Säfften, Beschreibung, und Nutzung ... Gedruckt zu Franckfort am Mayn bei Christian Egenolffs Erben, im Jahr 1557.

2°: aa<sup>6</sup> bb<sup>8</sup> A-Z<sup>6</sup> a-z<sup>6</sup> Aa-Ll<sup>6</sup>; ??ℓ.; [14], 1-342ℓ., c750 woodcut illus. Preface signed: Adamus Lonicerus, medicus ordinarius physicus Francfurt. Title vignette. Includes indexes.

**RARE.** First edition in German of this popular herbarium, which also included descriptions of animals, birds, fish, fossils and minerals, along with details of distilling apparatus. This popular herbal had many editions after its first appearance in 1557, and is a compilation based on previous works, principally Eucharius Rösslin's *Kreuterbuch* of 1533 and T. Dorsten's *Botanicon*. The numerous woodcuts are copied from the herbals of Brunfels, Fuchs, Bock and others. These illustrations show depictions of animals, plants, distilling apparatus, metals and gems to which human figures were added in later editions. Although Lonitzer's herbals had little influence on Linnaeus and post-Linnaean taxonomy, they were popular works until the 18th century.

This is not a new work in any sense but is, instead, a combination of an earlier version of *Der Gart der Gesundheit* and Brunschwig's *Das Buch zu Distillieren*. The first edition appeared in 1533, and was edited by Dr. Eucharius Rosslin. After Rosslin's death, the herbal portion was edited by Theodore Dorsten and entitled the *Botanicon*. Both of these publications were then brought together, re-edited, and combined with Lonicer's own contributions in 1557 to form the *Kreuterbuch*. Most of the illustrations were pirated from other sources, including herbals of Brunfels and Fuchs. There is no "standard" edition of this work, since through its many editions the order of entries has been rearranged repeatedly. Fact is not always distinguished from fiction because publishers learned that the mention of fictitious animals and plants appealed to the masses and bolstered book sales. For 20th century readers the text provides quaintness and medieval charm, but those who followed some of the misleading advice must have suffered greatly. However, what might seem to us to be outrageous remedies were usually harmless because no one could procure the exotic ingredients. Some of the medications mentioned were based on ancient remedies dating back to Egyptian papyrus records; for example, the healing properties advanced for Ricinus, the castor bean, were almost the same in ancient papyri as in works printed 3,000 years later. One remedy mentioned here is the Bezoar stone, made up of lime and magnesium phosphate, which was found in deer stomachs and intestinal tracts. These stones reputedly provided a miraculous antidote to poison, so they were often placed in goblets to protect against poisoned wine. They were in vogue in Europe from the 12th century on. There was a good market for them at the time of Louis XIV when such stones might sell for 50 times the price of an emerald of equal size. Patients who could not afford to purchase them outright could rent them by the day. Elizabeth I owned a large one which was set in gold and became a part of the crown jewels. The Shah of Persia presented four Bezoar stones to Napoleon I, hoping they might help cure his many ailments. This book caught the popular fancy and sold many copies. It was considered a real money-maker. Printed repeatedly, it remained a best seller for 250 years. One of the most recent editions was issued in 1783.

Translation of the title: *A herbal/Artistic Pictures of trees, Shrubs, Hedges, Herbs, Grains, Spices with Appropriate description of the names of the same in Six Languages—Namely Greek, Latin, French, German, and Italian & the Form of*

*the Natural Force & Operations of the Same Together With a Helpful and Good Account of the Art of Distilling Also of the leading animals, birds, and fishes of the earth-also of metals, and precious stones, gems, and juices or liquors...*

REFERENCES: *Cleveland Herbal & Botanical Collections*, 1992: p. 74. • Nissen (BBI): no. 1227. • Richter: no. 46. • VD16: L 2416. • Wellcome Catalog (Books): 1, no. 3854.

**3134. 2nd German edition, 1560-4:** [In black:] : K [in red:] reuterbuch/ Von allerhand | Baumen/ Stauden/ Hecken/ Kreutern/ Frü= | chten/ vnnd Gewürtzen/ Eygentlicher beschreibung der Gestalt/ | [in black:] vnderscheyd der Geschlecht/ vnndleiblicher abconterfay= | tung/ sampt jrem natürlichen Gebrauch/ | Krafft vnd Wirkung. | Mit vilen neuen Kreutern vnd Figuren/ in die zweyhundert/ vber ande- | re auszgangene Edition gemehret. | [in red:] Auch Distillierens Bereytschafft vnd Bericht/ allerley kost- | [in black:] lichen Wassereubrennen/ abziehen/ halten/ vnd zugebrauchen/ &c. | [in red:] Item der Fürnembsten Gethier/ Vogel und Fische/ Metal- | [in black:] len/ Edel gesteinen/ gebreuchlichen Gummi/ vnd gestandenen Saff- | ten/ beschreibung/ vnd nutzunge. | [in red:] Mit dreien fleissigen vollkōmenlichen Registern. | [in black:] ¶ Gemeynen Inhalt dises bchs findestu an der andern | seiten dises blats. | [in red:] ¶ Alles von Newem widerumb ersehen vnd gbestert. | [in black:] Mit Rom. Keyserlicher Maiestat Gnaden vnd | Priuilegio auff acht Iar. | [Woodcut of a garden scene] | Gedruckt zu Franckfort am Meyn/ Bei Christian Egenolffs Erben/ | [in red:] Im Iar M. D. LX.

2°: aa<sup>6</sup> bb<sup>8</sup> A-Z<sup>6</sup> a-z<sup>6</sup> Aa-Ll<sup>6</sup>; 356ℓ.; Foliated [14], I-CCCXLII. 1158 woodcut illus., including the one on the title page. PAGE SIZE: 227 x 180 mm. RARE.

REFERENCES: BL: [34.e.10.]. • *Cleveland Herbal & Botanical Collections*, 1992: no. 83. • Nissen (BBI): no. 1227.

**3135. 1564:** *Kreuterbüch von allerhand Bäumen, ... Kreutern ... und Gewürtzen. ... Auch Distillierens Bereytschafft und Bericht allerley kostliche Wasser zu brennen, abziehen, halten und zugebrauchen. ... Item der fürnembsten Gethier, Vögel, und Fische, Metallen Edel gesteinen gebreuchlichen Gummi und gestandenen Säfften Beschreibung. ... Alles von Newem widerumb ... gebessert. Jetzo ganz von newem durchsehen, ... und mit mehrn Kreutern und Figuren erstreckt.* Franckfort am Meyn, 1564.

2°: RARE.

REFERENCES: BL: [447.i.6.]. • Wellcome Catalog (Books): 1, no. 3855.

**3136. 1569:** *Kreuterbuch kunstliche Counterfeytunge der Baume, Stauden, Hecken, Kreuter, Getreyde, Gewurtze. Mit eygentlicher Beschreibung derselbigen Namen, Unterscheidt, Gestalt, natürlicher Krafft und Wirkung. Item von furnembsten Gethiern der Edern, Vogeln, und Fischen. Auch von Metallen, Gummi, und gestandenen Safften. Sampt Distillierens Kunstlichem und kurzem Bericht.* Franckfort am Meyn, Bey Christian Egenolffs, Erben, 1569.

2°: [18], cccxlviii, [1]ℓ., c800 woodcut illus.

RARE. Edited by Adam Lonitzer. Cf. Claus Nissen, *Die botanische Buchillustration. Bd. II: Bibliographie.* Stuttgart, 1951, no. 1669.

Rösslin, Eucharius, d. 1547.

**3137. 5th German edition, 1573:** *Kreuterbuch. Kunstliche Conterfeytunge der Bäume, Stauden, Hecken, Kräuter, Getreyde, Gewürtze.* Frankfurt, C. Egenolff Erben, 1573.

2°: [18], 1-349 leaves, c800 woodcut illus. SCARCE.

REFERENCES: BL: [725.k.26.(1.) ; wanting title page]. • Nissen (BBI): no. 1228. • Pauli: no. 503. • Pritzel, *Thesaurus Literaturæ Botanicae*, 1871-3: no. 5599. • Richter: no. 358. • VD16: L-2420.

**3138. 8th German edition, 1582:** *Kreuterbuch. Kunstliche Conterfeytunge der Bäume, Stauden, Hecken, Kräuter, Getreyde, Gewürtze.* Frankfurt, 1582.

2°: [14], 1-382, [3] leaves, c800 woodcut illus. SCARCE.

REFERENCES: Nissen (BBI): no. 1228. • Pauli: no. 505. • Richter: no. 492. • VD16: L 2423.

**3139. 1587:** Kreuterbuch Runstliche conterfeytunge der baume, stauden, hecken, kreuter, getreyde, geuritze. Frankfort, bey Christian Egenolffs. 1587.

2°: [28], i-ccclxxxii, [3] leaves, c800 woodcut illus. SCARCE.

**3140. 1593:** Kreuterbuch, Künstliche Conterfeytunge der Bäume, Stauden, Hecken, Kreuter, Getreyde, Gewürtze. Mit eigentlicher Beschreibung derselben Namen, in sechserley Sprachen, Nemlich, Griechisch, Latinisch, Italianisch, Französisch, Teutsch und Hispanisch, und derselben Gestalt, natürlicher Krafft und Wirkung. Sampt künstlichem und artlichem Bericht de... Christian Egenolff's Erben(?), Frankfurt am Main 1593.

2°: [8], I-CCCLVIII<sup>l</sup>. Woodcut vignette on the title page. Woodcut portrait of the author. Title in red and black.

RARE. First, Latin, edition of Lonitzer's (1528-86) medical encyclopedia was published in 1551, being followed by the first German edition in 1557. This is probably the 1593 edition, being a modified version of the second German edition from 1564 that has 322 folia. The 1598 edition is listed to have 382 folia.

REFERENCES: BL: [547.k.10.]. • Graesse, *Trésor de Livres Rares*, 1859-69: 4, 256. • Pritzel, *Thesaurus Literaturæ Botanicae*, 1871-3: no. 5599.

**3141. 1598:** Kreuterbuch. Kunstliche Conterfeytunge der Bäume, Stauden, Hecken, Kreuter, Getreyde, Gewürtze. Frankfurt: Heirs of Christian Egenolph, 1598.

2°: )(6 \*-\*\*\*4 A-O6 P4 Q-Z6 a-z6 Aa-Ee6 Ff4 AA-NN6; ??<sup>l</sup>.; [16] l., ff. 382, [4]<sup>l</sup>. Title printed in red and black with woodcut vignette. Approximately 840 woodcut illustrations in the text showing scientific apparatus, plants, animals, birds, fish, shells, seaweeds, precious stones and minerals, after Hans Beham (Dodgson I: 445, no. 45) and Hans Schäuffelein (Dodgson II: 15, no. 50). PAGE SIZE: 306 x 195 mm. SCARCE.

REFERENCES: Dodgson, *Catalogue of Early German and Flemish Woodcuts*, 1911. • Nissen (BBI): no. 1228. • Wellcome Catalog (Books): 1, no. 3856.

**3142. 1609:** Kreuterbuch. Kunstliche Conterfeytunge der Bäume, Stauden, Hecken, Kreuter, Getreyde, Gewürtze. Frankfurt am Maine, Sigismund Latomus for Vincent Steinmeyer, 1609.

2°: [14], 1-382, [6] leaves, c800 woodcut illus. SCARCE.

REFERENCES: *Cleveland Herbal & Botanical Collections*, 1992: no. 155. • Nissen (BBI): no. 1228. • Pritzel, *Thesaurus Literaturæ Botanicae*, 1871-3: no. 5599.

**3143. 1616:** Kreuterbuch. Kunstliche Conterfeytunge der Bäume, Stauden, Hecken, Kreuter, Getreyde, Gewürtze. Frankfurt am Maine: Sigismund Latomus for Vincent Steinmeyer, 1616.

2°: )(6 \*-\*\*\*4 A-O6 P4 Q-Z6 a-z6 Aa-Ee6 Ff4 AA-NN6; ??<sup>l</sup>.; Title printed in red and black with woodcut vignette. Over 800 woodcut illustrations in the text, showing distillery apparatus, plants, animals, birds, fish, shells, seaweeds, precious stones, metals and minerals. PAGE SIZE: 295 x 185 mm.

SCARCE. The third Steinmeyer edition (?? edition overall) of this popular herbarium, which also included descriptions of animals, birds, fish, fossils and minerals, along with details of distilling apparatus. This is the last edition before the reworking of the text and illustrations by P. Uffenbach (1630).

**3144. 1630:** Kreuterbuch. Kunstliche Conterfeytunge der Baume, Stauden, Hecken, Krauter, Getreydt, Gewurtze, u. mit eigentlicher Beschreibung derselben Nahmen, in sechserley Spraaehen, nemlich Teutsch, Griechisch, Latinisch, Frantzosisch, Italianisch und Hispanisch, und derselben Gestalt, natürlicher Krafft und Wirkung. Sampt vorher gesetzten und gantz aussführlich beschreibenem

Bericht der schonen und nützlichen Kunst zu distillieren. Item von den furnembsten Gethieren der Erden Vogeln, Fischen unnd Gewurm. Dessgleichen von Metallen, Ertze, Edelgesteinen, Gummi und gestandenen Safften. Vincentij Steinmeyers, 1630.

2°: [16], 566, [1], 571-750, [25] p., c800 woodcut illus. Title vignette; head and tail pieces; initials; side notes.

SCARCE. This is the first edition of Peter Uffenbach [1566-1635] rewritten text.

REFERENCES: BL: [434.h.15.]. • Nissen (BBI): no. 1228. • Pritzel, *Thesaurus Literaturæ Botanicae*, 1871-3: no. 5599. • Wellcome Catalog (Books): 1, no. 3857.

**3145. 1678:** Kreuterbuch. Kunstliche Conterfeytunge der Bäume, Stauden, Hecken, Kräuter, Getreyd, Gewürtze etc... Item von den fñhrnehmsten Gethieren der Erden, Vögeln, Fischen und Gewürm. Deßgleichen von Metallen, Ertze, Edelgesteinen ... Nunmehr aber durch Petrum Uffenbachium ... übersehen, corrigirt und verbessert. Ulm, M. Wagner für J. Weh in Augsburg, 1678.

2°: [8], 750, [24] p., title page woodcut, one woodcut portrait, c840 woodcut illus.

SCARCE. Fourth edition of P. Uffenbach's rewritten text.

REFERENCES: Heilmann, *Kräuterbücher*, 1966: p. 233ff. • Nissen (BBI): no. 1228. • Pritzel, *Thesaurus Literaturæ Botanicae*, 1871-3: no. 5599.



KREUTERBUCH, 1679

**3146. 1679:** Kreuterbuch, kunstliche Conterfeytunge der Baume, Stauden, Hecken, Krauter, Getreyd, Gewurtze ... : mit eigentlicher Beschreibung derselben Nahmen in sechserley Sprachen, nemlich Teutsch, Griechisch, Lateinisch, Frantzosisch, Italianisch und Hispanisch, und derselben Gestalt, natürlicher Krafft und Wirkung ... Item von den furnehmsten Gethieren der Erden, Vogeln, Fischen und Gewurm : Dessgleichen von Metallen, Ertze, Edelgesteinen, Gummi und estandenen Safften ... /



## LÖSCHER

bisshero von dem Edlen ... Herrn Adamo Lonicerio ... zum offtermal in offenen Druk verfertigt worden ; nunmehr aber durch Petrum Uffenbachium ... übersehen, corrigirt und verbessert an vielen Orten augirt und vermehrt und in acht sonderbahre Theil unterscheiden ... Ulm, Wagner, 1679.

2°: [4], 750, [24] p., woodcut on title, woodcut portrait and c840 woodcuts in the text. VERY SCARCE.

**Facsimile reprint, 1934:** Kreuterbuch, künstliche Conterfeytunge ... Leipzig, F.W. Hendel, 1934.

REFERENCES: BL: [434.h.16.]. • Heilmann, *Kräuter-bücher*, 1966: [reproduces the title page].

**3147. 1703:** Kräuterbuch und Künstliche Conterfeyungen. Ulm, Daniel Bartholomae, 1703.

2°: [4], 750, [24, index] p. Title printed in red and black with woodcut printer's device, handcoloured woodcut portrait of the author, and over 1200 beautifully contemporary handcoloured woodcuts. PAGE SIZE: 302 x 191 mm. SCARCE.

**3148. 1705:** Kräuter-Buch und Künstliche Conterfeyungen der Bäumen, Stauden, Hecken, Kräutern, Getrayde, Gewürtzen, etc., mit Eigenthlicher Beschreibung... deroselben Gestalt, natürlicher Krafft und Würckung. Samt vorher gesetztem und ganz ausführlich-beschriebenem Bericht der schönen und nützlichen Kunst zu destilliren, Wie auch Bauung der Gärten und Pflanzung der Bäumen; Ingleichem Von den fürnehmsten Thieren der Erden, Vögeln, Fischen und Gewürmen, und dann auch von Metallen, Ertz, Edelgesteinen, Gummi und gestandenen Säfte. Allen Aertzten, Wund Aertzten, Apotheckern, Gärtnern, Hauß-Vättern, krancken und presthaften Personen in Stadt und Land höchst-nütz und dienlich. Auf das allerfleissigste übersehen, corrigirt und verbessert, an vielen Orten au ... Ulm, Bartholomae, 1705.

2°: [4], 705, [24] p., portrait of Lonicer, c800 woodcut illus. Title in red and black.

SCARCE. Ulmer Ausgabe des berühmten und beliebten Kräuterbuches, das außerdem auch von Tieren (Teil 3), Vögel (Teil 4), Fische (Teil 5), Metalle u. Erze (Teil 6), Edelsteine (Teil 7) und Gummi/gehärtete Säfte (Teil 8) handelt. Das Werk ist eine volkstümlich geschriebene, mit Textholzschnitten reich illustrierte naturwissenschaftliche und medizinische Enzyklopädie. - Die in den einzelnen Auflagen öfter wechselnden Abbildungen stammen in ihrem Grundstock aus dem Rösslinschen Kräuterbuch, später durch Neu- und Nachschnitte vermehrt (vgl. Nissen, BBI 1228). - Heilmann S. 392: "Der Lonicerus weiß besondere Einzelheiten über Edelsteine, edle Metalle und vor allem über den sagenhaften Bezoar, "den Stein wider alles Gift" zu berichten".

**BOTANY/HERBAL:** One of the most important and valuable botanical work of the period. There were numerous editions (in Latin and German) until the late 18th century. In addition to the herbal, the work also includes the description of birds, fishes, metals, precious stones etc. It is a richly illustrated scientific and medical encyclopedia with more than 800 woodcuts in text.

**3149. 1713:** Vollständiges Kräuter-Buch. Auf das allerfleissigste übersehen von P. Uffenbach. Ulm, Bartholomä, 1713.

2°: [4], 750, [24] p., title page woodcut, c840 woodcut illus.

SCARCE. Late, about 20th edition of this popular book of herbs of which another 5 editions were published in the 18th century. The woodcuts were obviously re-used from earlier Ulm impressions of this work.

One of the most important and valuable botanical work of the period. There were numerous editions (in Latin and German) until the late 18th century. In addition to the herbal, the work also includes the description of birds, fishes, metals, precious stones etc. It is a richly illustrated scientific and medical encyclopedia with more than 800 woodcuts in text.

[Lonicer, A., Kräuterbuch.. Vollständiges Kräuter Buch, und Künstliche Conterfeytungen der Bäumen, Stauden, Hecken, Kräuter, Geträyde ... samt ausführlichem Bericht von der Kunst zu destillieren ...] Mit ca. 800 vereinz. kolor. Textholzschnitten. O. O. u. J. [Vermutl. Ulm, D. Bartholomäus 1713]. Neuer Pgt. Fol. 750 S., 12 Bll. Nissen 1228. - Pritzel 5599. - Feldmann 20. - Schreiber XLVII f. - Lonciers (1528-86) berühmtes Kräuterbuch erschien erstmals 1557 und wurde 1630 von Uffenbach neu bearbeitet. - Die schönen Holzschnitte, die in den versch. Auflagen öfter wechseln, stammen in ihrem Grundstock größtenteils aus dem Kräuterbuch von Rössing. "Die Destilliergefäße stammen aus dem Kleyn Distillierbuch [Frankfurt: Egenolph um 1552]" (Nissen). - Lonicerus Kräuterbuch "ist in der deutschen Ausgabe sehr populär geworden" (ADB XIX, 157). - Fehlen die ersten 2 Bll., S. 567/68 (leeres Bl.?) sowie die S. 579/580. - Tlw. leicht gebräunt und tlw. etw. fleckig, ca. 40 Bll. mit restaurierten Randläsuren bzw. vollständig hinterlegt, ca. 25 Bll. mit Einrissen (davon 5 Bll. hinterlegt), 1 Bl. mit Eckabrieb (mit Textverlust), Vorsätze erneuert.

REFERENCES: Nissen (BBI): no. 1228. • Pritzel, *Thesaurus Literaturæ Botanicae*, 1871-3: no. 5599.

**3150. 1716:** Vollständiges Krauterbuch, und kunstliche Conterfeyungen der Baumen, Stauden, Hecken, Krautern, Getrayde, Gewurtzen, etc. Ulm. 1716.

2°: 750 p. SCARCE.

**3151. 1737:** Vollständiges krauter-buch. Mit einer zugabe begleitet von Balthasar Ehrhart. Ulm. 1737.

2°: [8], 750, [32], 136 p. SCARCE.

REFERENCES: BL: [435.h.18.].

**3152. 1770:** Vollständiges Krauter-Buch ... samt ausführlichem Bericht von der Kunst zu destilliren. Von P. Uffenbach übersehen und vermehrt. Mit Zugabe begleitet von Balthasar Ehrhart. Ulm, Bartholomäi, 1770.

2°: [8], 750, [24] p.; [8], 136 p., c800 woodcut illus.

SCARCE. Late Ulm edition, that is followed only by the 1783 Augsburg edition.

REFERENCES: Nissen (BBI): no. 1228. • Pritzel, *Thesaurus Literaturæ Botanicae*, 1871-3: no. 5599.

**3153. 1783:** Vollständiges Krauter-Buch. Augsburg, 1783.

2 vols. Vol. 2 has title: Nothige Zugabe zu D. Adami Loniceri Krauter-Buch ... durch Balthasar Ehrhart. SCARCE.

**LÖSCHER, Carl Immanuel.** (BORN: Wiederau, Saxony, Germany, 27 July 1750; DIED: Freiberg, Germany?, 21 March 1814) *German mining expert.*

Löschner was a mining official in Klösterle in Bohemia. Later he lived in Freiberg and worked with Werner.

REFERENCES: DBA: I 776, 390-395; II 825, 186-187. • Hamberger & Meusel, *Gelehrte Teutschland*, 1796-1834. • Meusel, *Verstorbenen Teutschen Schriftsteller*, 1802-16. • NDB: 15, 64-5 [by W. Fischer]. • Poggendorff: 1, cols. 1486-7. • WBI.

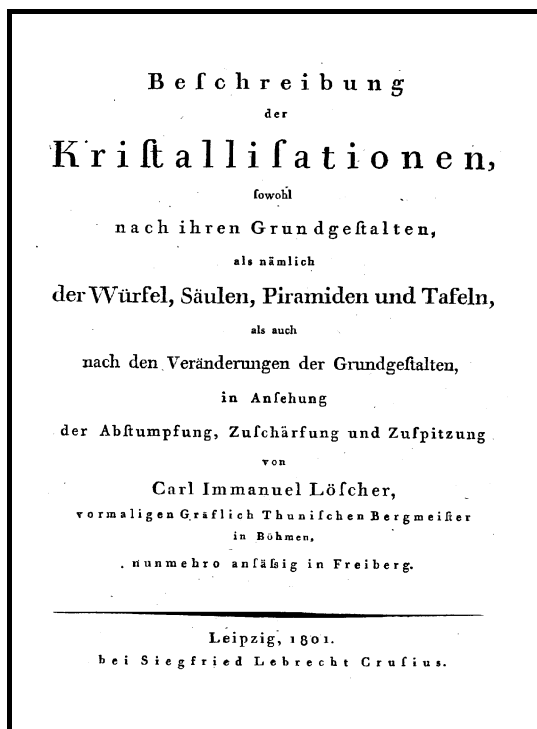
**3154. — German, 1796.**

Uibergangsordnung | bei der | Krystallisation der Fossilien, | wie sie auseinander entspringen | und | in einander übergehen | von | Carl Imanuel Löschner | [...2 lines of titles and memberships...] | [ornament] | Mit 6 Kupfern. | [tapered rule] | Leipzig, 1796. | bei Siegfried Lebrecht Crusius.

8°: [i]-vi, [1]-61, [1] p., 6 plates (folding). PAGE SIZE: 202 x 158 mm. RARE.

CONTENTS: [i]-ii, Title page, verso blank.; [iii]-vi, "Vorrede."; [1]-61, Text.; [1 pg], Blank.; [At end], 6 plates.

REFERENCES: BL: [B.366.(6.)]. • Fischer, *Mineralogie in Sachsen*, 1939: 181. • LKG: IX 22. • Marx, *Geschichte*



#### BESCHREIBUNG DER KRISTALLISATION, 1801

*der Crystallkunde*, 1825: 114-5. • Ward & Carozzi, *Geology Emerging*, 1984: no. 1400.

#### 3155. — German, 1801.

Beschreibung | der | Kristallisation, | sowohl | nach ihren Grundgestalten, | als nämlich | der Würfel, Säulen, Piramiden und Tafeln, | als auch | nach den Veränderungen der Grundgestalten, | in Ansehung | der Abstumpfung, Zuschärfung und Zuspitzung | von | Carl Immanuel Löscher, | vormaligen Graflich Thunischen Bergmeister | in Böhmen. | nunmehr anständig in Freiberg. | [tapered rule] | Leipzig, 1801. | bei Siegfried Lebrecht Crusius.

4°: A-M<sup>4</sup>; 48ℓ.; [1]-96 p., 6 folding plates. PAGE SIZE: 218 x 158 mm.

CONTENTS: [1-2], Title page, verso blank; [3]-46, "Vorrede."; [47]-96, "I. Ikosaëdron. Dodekaëdra. Linsen und I Würfel."; [At end], 6 folding engraved plates.

PLATES: The six folding engraved plates all show shaded diagrams of various crystal forms. They each have a "Tab." number in the upper right-hand corner and a description of the type of crystal form depicted upon the plate. Only the first plate is signed at the bottom, "Loescher delin:1800 F.E. Müller sc." All other plates are unsigned.

The plates consist of: Tab. I. Würfel [=cubic; showing figures 1-36]; Tab. II. Säulen [=prismatic; showing figures 37-69]; Tab. III. Säulen [=prismatic; showing figures 70-101]; Tab. IV. Säulen [=prismatic; showing figures 102-129]; Tab. V. Piramiden [=pyramidal; showing figures 130-190]; Tab. VI. Tafeln [=tabular; showing figures

191-223].

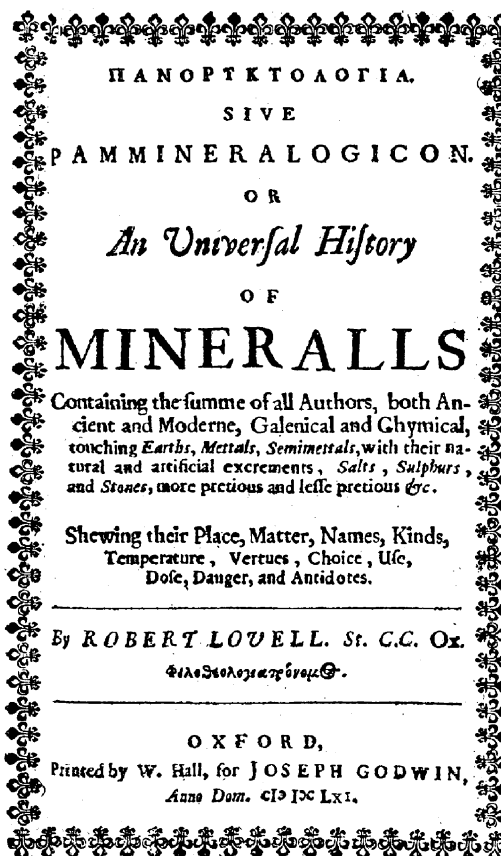
RARE. Löscher was a manufacturer of crystal models in Freiberg, and Fischer (1939) records that he worked under the supervision of Werner in supplying his collections, which consisted of upto 200 models. Löscher wrote this work as a response to the many mineral enthusiasts who requested that a printed description of the models accompany his collections. The plates show figures of the crystal models in plan and side views.

REFERENCES: BL: [726.e.8.(7.)]. • Fischer, *Mineralogie in Sachsen*, 1939: 181. • LKG: IX 23 & 24a. • Marx, *Geschichte der Crystallkunde*, 1825: 114-5.

**LOVELL, Robert.** (BORN: Lapworth, Warwickshire, England, c1630; DIED: Coventry, England, November 1690) *English naturalist*.

Lovell was born the younger son of the Rector of Lapworth. He became a student of Christ Church, Oxford in 1648 graduating B.A. in 1659 and M.A. in 1653. He studied botany, zoology and mineralogy, and his works on these subjects were published between 1659 and 1661, apparently while he still was resident at Oxford. Later, he relocated to Coventry, where he lived the remainder of his life.

REFERENCES: BBA: I 702, 115-119. • DNB: 12, 174-5. • Lambrecht & Quenstedt, *Catalogus*, 1938: 269. • Poggendorff: 1, col. 1503. • Watt, *Bibliotheca Britannica*, 1824. • WBI.



SIVE PAMMINERALOGICON, 1661

**3156. — English, 1661.**

[Contained within an ornate box:]

IIANZOOPYKTOAOΓIA. | Sive | Panzoologicomineralogia. | Or a Compleat | History | Of Animals and Minerals, | Containing the Summe of all Authors, both Ancient | and Modern, Galenicall and Chymicall, touching Animals, Viz. Beasts, Birds, Fishes, Serpents, Insects, | and Man, as to their Place, Meat, Name, Temperature, Vertues, | Used in Meat and Medicine, Description, Kinds, Generation, | Sympathie, Antipathie, Diseases, Cures, Hurts, and Remedies &c. | With the Anatomy of Man, the Diseases, with their Definitions, | Causes, Signes, Cures, Remedies: and use of the London Dispen- | satory, with the Doses and Formes of all kinds of Remedies: | also a History of Minerals, viz. Earths, Mettals, Semi- | mettals, their Naturall and Artificiall excrements, Salts, Sulphurs, | and Stones, with their Place, Matter, Names, Kinds, Temperature, | Vertues, Use, Choice, Dose, Danger and Antidotes. | [The next 3 lines braced on the left-hand side by, "Also an {"} Introduction to Zoography and Mineralogy. | Index of Latine Names, with their English Names. | Universall Index of the Use and Vertues. | [rule] | By Robert Lovell. St.C.C. Oxon. | [...one line in Greek...] | [rule] | Oxford, | Printed by Aen: Hall, for Jos:Goodwan. 1661.

[TITLE PAGE OF VOLUME TWO:]

[Within an ornate box:] IIANOPYKTOAIA. | Sive | Pammineralogicon. | Or | An Universal History | Of | Minerals | Containing the summe of all Authors, both An- | cient and Moderne, Galenical and Chymical, | touching Earths, Mettals, Semimetals, with their na- | tural and artificiall excrements, Salts, Sulphurs, | and Stones, more pretious and lesse pretious &c. | Shewing their Place, Matter, Names, Kinds, | Temperature, Vertues, Choice, Use, | Dose, Danger, and Antidotes. | [rule] | Robert Lovell. St. C.C. Ox. | [...one line in Greek...] | [rule] | Oxford, | Printed by W. Hall, for Joseph Godwin, | Anno Dom. cId IoD LXI.

[Vol 1] 8°: [a]<sup>8</sup> b-f<sup>8</sup> A-2I<sup>8</sup> 2K<sup>4</sup>; 308ℓ.; [96], 519 p., ornamental initials and headpieces. [Vol 2] 8°: π<sup>4</sup> a-f<sup>8</sup> g<sup>4</sup> 3A-3C<sup>8</sup>; 80ℓ.; [8], 152 p., ornamental initials and headpieces. PAGE SIZE: 165 x 100 mm.

CONTENTS: [Vol 1] [2 pgs], Title page, verso blank.; [2 pgs], Dedication to King Charles.; [82 pgs], "Isagoge | Zoologicomineralogica. | Or | An Introduction to the History of Animals and | Minerals, or Panzoographie, and Pammi- | neralogie."; [8 pgs], "Catalogue | Of Authors, as they are cited in the Panzoologie, | with the explication thereof."; 1-519, Text.; [1 pg], Blank.

[Vol 2] [2 pgs], Title page, verso blank.; 1-103, Text.; [104], Blank.; 105-152, "An | Index | Containing the Latin

Names of such Li- | ving Creatures, and Mineralls, as are | mentioned in this Book, in Alphabetical order, together with their English Names."

VERY SCARCE. These two volumes that are usually bound in one, form a quaint natural history encyclopedia typical of the 17th century. Contained within the first volume are an introduction to the history of animals and minerals and extensive accounts of all things related to animals, which deals in turn with beasts, birds, fishes, serpents, and insects. The second volume with a separate title page concerns minerals. This is the earliest work on minerals by an English author, and it is perhaps only predated in the English language in its subject by the translation and subsequent editions of Albertus Magnus' *Liber Aggregations* (*Boke of Secrets*, 1st ed., London, c1550). The mineralogical descriptions are compiled from about 250 authors and deal chiefly with minerals from the standpoint of their medicinal uses. Only the sketchiest indications of localities are included, but the sections on precious and semiprecious stones are quite extensive.

Lovell was a prolific reader, with an extensive knowledge of books and a wonderful industry in the collection of his materials, as well as a good judge in the arrangement of text. He utilized his talents to write an earlier work on botany (*Sive Enchiridion Botanicum*, Oxford, 1659) and the present 2 volumes complete his study of the natural kingdom with animals and minerals. Here, Lovell systematically recorded without judgment all that he found in the course of reading the old naturalists. He repeats all the legends and tales of the past without questioning their credibility. For example, he states quite seriously, that caterpillars are formed from dew congealed on cabbage leaves by the sun, and that fleas are generated from the action of sweat upon dust trapped in dogs hair. Yet, in Lovell's time, ROBERT BOYLE was living and experimenting at Oxford and the Royal Society was collecting Maydew—perhaps to congeal some caterpillars—and chemistry, physics, and astronomy were all advancing.

The text of the mineralogical volume is divided into 4 sections, with subdivisions occurring in each. Arrangement of the individual species within subdivisions is always alphabetical. The sections are (1) Geologia, which describes the Earths, including chalk, clay and Fuller's earth, the Mettals, including copper, gold, iron, lead, silver and tin, the Semi-Mettals, including antimony, cinnabar and mercury, Mettals Naturall Excrements, including chalcocite and marcasite, Mettals Artificiall Excrements, including Cadmia and Plumbago, (2) Halologia, which describes Salts, including alum, amoniack, common salt, nitre and vitrol, (3) Theiologia, which describes Sulphurs, including amber, arsenic, asphalt and brimstone, and (4) Lithologia, which describes Stones, including precious (=agates, amethyst, beryl, bezoar stone, ruby, sapphire, topaz, etc.) and stones less than precious (=alabaster, lapis lazuli, bloodstone, borax, crystal, limestone, lodestone, etc.).

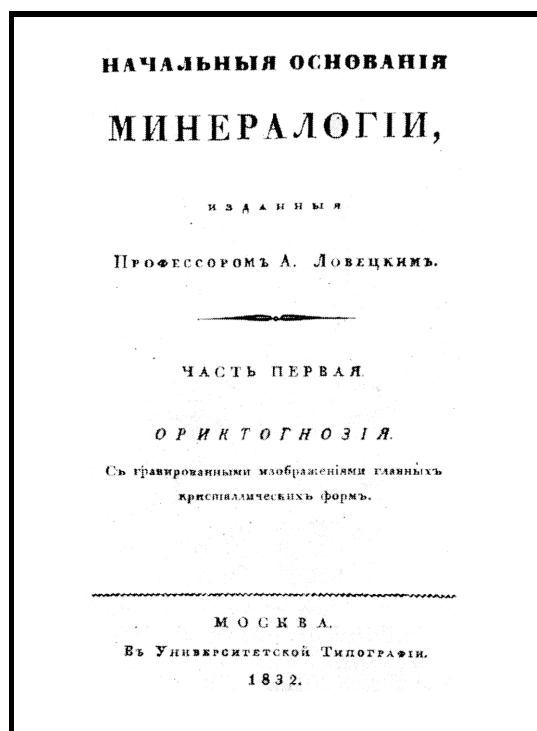
REFERENCES: BL. • Ferguson, *Histories of Inventions*,

1981: IV, 21-2. • Hoover Collection: no. 546. • Madan, *Oxford Books*, 1895-1931: no. 2561. • NUC. • Osler, *Bibliotheca Osleriana*, 1969: no. 3271. • Smith, *Early Mineralogy in Great Britain*, 1978. • Wing: L 3245. • Wood, *Literature of Vertebrate Zoology*, 1931: 442.

**LOVETSKII, Aleksei Leont'evich.** (BORN: 1787; DIED: Moscow, Russia, 22 February 1840) *Russian physician & naturalist.*

Lovetskii graduated with an medical degree in 1812. In 1826 he was appointed professor of surgery at the Academy of Science. In 1834, he also became a professor of natural history at Moscow University. He authored works on questions of zoology, mineralogy, economy, physiology and pathology. He was also an early investigator of infectious diseases of humans, and held the view that they were transmitted by parasites in the body.

REFERENCES: *Entsiklopedicheskii Slovar Biografi: ??, ??*. • *Entsiklopedicheskii Slovar: ??, ??*. • Kozakova, O.V., "Zabytyi uchenyi pervoi poloviny XIX v. Aleksei Leont'evich Lovetskii," *Trudy Institut Istorii Estestvoznaniia i Tekhniki (Akademiia Nauk SSSR)*, 41 (1962), 353-75. [Detailed account about the forgotten scientist of the first half of the 19th century, Aleksei Leont'evich Lovetskii]. • RBA: Russian Biographical Archive. • Zvorykin, *Biograficheskii Slovar*, 1958: 1, 527.



MINERALOGII, 1832

**3157. — Russian, 1832** [First edition].

Начальныя Основанія | Минералогіи, | Изданныя | Профессоромъ А. Ловецкимъ. | [ornate rule] | Часть Первая | Ориктогнозія. | Съ гфавированными нзображеніями гланыхъ | крисмаллмческихъ Формъ. | [wavy rule] |

Москва. | Въ Университетской Типографіи. | 1832.

[TRANSLITERATED TITLE:]

Naqal'nye Osnovaniia | Mineralogii, | Izdannyi | Professorm A. Lovetskm. | [ornate rule] | Qast' Pervaia | Oriktognoziia. | S gfavirovannymi nzobranchsheniiami glannyh | krismallmqeskih Form. | [wavy rule] | Moskva. | V Universitetskoiia Tipografii. | 1832.

8°:

EXTREMELY RARE. Lovetskii's *First Foundation of Mineralogy* argues against the ideas of Neptunism and is thus against Werner. He asserts the importance of chemistry in mineralogy as a means of classification and for studying the formation of minerals. Lovetskii is among the earliest mineralogists to describe amber as a combustible mineral of organic origin. As evidence he bases this view on the fact that insects are held imprisoned with in the fossilized amber.

REFERENCES: BL: [no copy listed]. • Gordeev, Demian I., *Исторія геологическихъ наукъ в Мокковскомъ университетѣ* [Istorija geologiceskich nauk v Mokovskom Universitete]. (K 258 letijuso dnja rozenija M.V. Lomonosova 1711-1961). Moskva, 1962. 352 p., portraits, illus: p. 66-7. • Puzirevski, *Katalogia Bibliotekia*, 1867: no. 10.

**LOWRY, Delvalle** (afterwards **Varley**). (BORN: ; DIED: ) *English mineralogist.*

Lowry was the daughter of the famous artist, Wilson Lowry [1762-1824]. After his death, she married the painter John Varley [1778-1842]. She was apparently of short stature and it is said that when Varley's apprentices grew bored, they would toss Mrs Varley back and forth amongst them. A painting on ivory of Delvalle by her father is apparently held in the collections of the British Museum.

REFERENCES: Allibone, *Dictionary of English Literature*, 1859-71. • BBA: I 1233, 141. • Schenkenberg, *Die lebenden Mineralogen*, 1842: 61 [no detail]. • WBI.

### Conversations

**3158. — English, 1822** [First edition].

Conversations | on | Mineralogy. | [rule] | With Plates, | Engraved By Mr. And Miss Lowry, | From Original Drawings. | [rule] | In Two Volumes. | Vol. I. [-II.] | [tapered rule] | London: | Printed For | Longman, Hurst, Rees, Orme, And Brown, | Paternoster-Row; And | Sold By J. Mawe, 149, Strand. | 1822.

2 vols. [VOL 1] 12°: xv, 259 p., frontispiece (hand-colored), 5 plates (numbered 1-5); [VOL 2] 12°: iv, 282 p., 5 plates (numbered (6-10)).

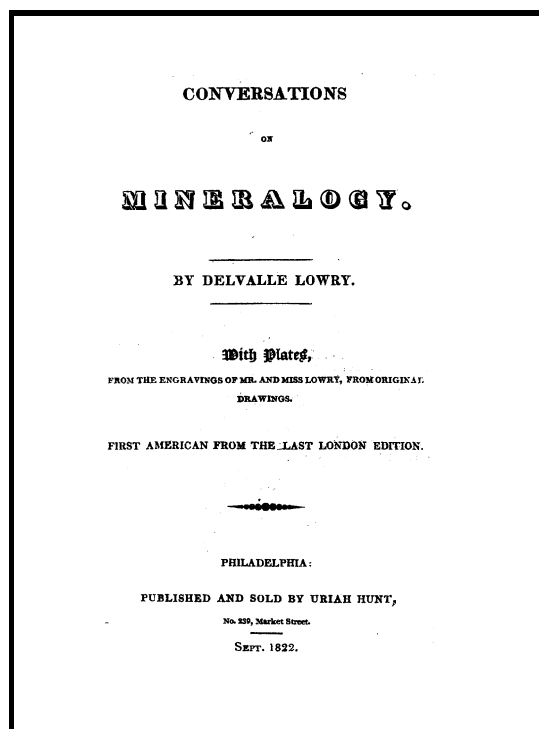
PLATES: The engraved frontispiece shows 12 mineral specimens each hand-colored. The 10 engraved plates show instruments, apparatus and a goniometer and various crystal drawings, some of which are based upon Haiiy's dissected crystals.

VERY SCARCE. The operative word in the title is "Conversations." The entire work is a series of discussions between Miss L. (Lowry) and two young ladies that explores various aspects of mineralogy and

## LOWRY

crystallography, including the descriptions of species. This was one of the popular style mineralogical works published in nineteenth century England. It was reprinted several times indicating an interest in the work by the public at large.

REFERENCES: NUC: 630, 239.



CONVERSATIONS ON MINERALOGY, 1822

**3159. American issue, 1822:** Conversations | on | Mineralogy. | [rule] | By Delvalle Lowry. | [rule] | With Plates, | from the engravings of Mr. and Miss Lowry, from original | drawings. | First American from the Last London Edition. | [ornate rule] | Philadelphia: | Published and Sold by Uriah Hunt, | No. 239, Market Street. | [rule] | Sept. 1822.

12°: [A]-Z<sup>6</sup> 2A-2D<sup>6</sup> 2E<sup>4</sup>; 166ℓ.; [i]-xi, [1] blank, [13]-332 p., folding colored frontispiece, 11 plates on 6 leaves (5 folding). PAGE SIZE: 177 x 103 mm.

CONTENTS: [Facing title page, folding colored frontispiece]; [i-ii], Title page, verso "Recommendation."—dated September 22, 1822.; [iii]-viii, "Preface."; [ix]-xi, "Contents."; [1 page], Blank.; [13]-301, Text.; [302], Blank.; 303-311, "Appendix, No. I."—glossary of mineral names.; [312]-323, "Appendix, No. II. Tabular View of the Arrangement Adopted in this Work."; [324], Blank.; [325]-332, "Index."; [At end], 11 plates on 6 leaves (5 folding).

SCARCE. American issue after the original 1822 London edition.

REFERENCES: NUC: 630, 239.

**3160. 2nd edition, 1826:** Conversations on Mineralogy. With plates, engraved by Mr. and Miss Lowry, from original drawings. In two volumes. Second edition. London: Longman, Hurst, Rees, Orme and Brown, 1826.

2 vols. [VOL 1] 12°: a<sup>6</sup> b<sup>2</sup> B-M<sup>12</sup> N<sup>3</sup>; ??ℓ.; [I]-xv, [1]-270 p., frontispiece (hand-colored), 5 plates (numbered 1-5; folding; showing apparatus and crystal diagrams); [VOL

2] 12°: π<sup>2</sup> B-N<sup>12</sup> O<sup>5</sup>; ??ℓ.; [4], [1]-297, [1] p., 5 plates (numbered 6-10). PAGE SIZE: 174 x 100 mm.

CONTENTS: [Vol 1] [I-ii], Title page, verso "Printed By Richard Taylor."; [iii]-xi, "Preface."—signed Delvalle Lowry.; [xii], "Directions to the Binder."; [xiii]-xv, "Contents | Of | The First Volume."; [1 pg], Blank.; [1]-270, Text.

[Vol 2] [2 pgs], Title page, verso "Printed By Richard Taylor, Shoe-Lane."; [2 pgs], "Contents | Of | The Second Volume."; [1]-288, Text.; [289]-297, "Index."; [1 pg], "Printed By Richard Taylor, | Show-Lane, London."

SCARCE. All the plates were engraved from designs made by Miss Lowry by W. & Mrs. Lowry.

REFERENCES: NUC: 630, 239.

**3161. 3rd edition, 1837:** Conversations | On | Mineralogy. | With Plates, | Engraved By Mr. And Miss Lowry, | From Original Drawings. | [rule] | In Two Volumes. | Vol. I. [-II.] | [rule] | Third Edition, Enlarged. | London: | Printed For | Longman, Rees, Orme, Brown, Green, & Longman, | Paternoster-Row. | 1837.

2 vols. [VOL 1] 8°: A<sup>6</sup> B-N<sup>12</sup> O<sup>3</sup>; 153ℓ.; [i]-xi, [1], [1]-293, [1] p., frontispiece (hand-colored); [VOL 2] 8°: π<sup>1</sup> B-P<sup>12</sup> Q<sup>5</sup>; 174ℓ.; [2], [1]-345, [1] p., 11 folding plates (apparatus, goniometer, crystal drawings). PAGE SIZE: 180 x 102 mm. SCARCE.

CONTENTS: [Vol 1] [i-ii], Title page, verso "London: | Printed by A. Spottiswoode, | New-Square-Street."; [iii]-xi, "Preface," signed D. Varley; [1 pg], Blank.; [1]-293, Text.; [1 pg], "London: | Printed by A. Spottiswoode, | New-Square-Street."

[Vol 2] [i-ii], Title page, verso blank.; [1]-308, Text.; [309]-321, "Appendix. | [rule] | No. I. | Derivation Of The Names Of Several | Mineral Substances."; [322]-334, "No. II. | Tabular View | Of The | Arrangement Adopted In This Work."; 335-345, "Index."; [1 page], "London: | Printed by A. Spottiswoode, | New-Square-Street."

REFERENCES: NUC: 630, 239.

## Rudimentary Treatise

**3162. — English, 1849** [First edition].

Rudimentary Treatise | on | Mineralogy; | for | the Use of Beginners. | By | D. Varley, | Author of 'Conversations on Mineralogy,' etc. | Parts I. & II. Together, Complete. | With Illustrations. | London: | John Weale, | Architectural Library, 59, High Holborn. | [rule] | M.DCCC.XLIX.

12°: [4], [1]-164, [i]-vi, [1]-24 publisher's list p., 2 plates (one colored). PAGE SIZE: 180 x 106 mm.

CONTENTS: [Facing title page, colored frontispiece]; [2 pgs], Title page, verso "London: J.S. Hodson, Printer ..."; [1 pg], "Advertisement."; [1 pg], Blank.; [Plate showing 24 crystal drawings]; [1]-34, "General Discussion of Mineralogy."; 35-164, Description of species.; [i]-vi, "Index."; [1]-24, "New List of Works ..."

PLATES: There are two plates, one hand-colored the other plain. The colored plate shows five mineral specimens: Fluor spar (Fluorite), Beryl, Kynait, Australian Malachite, and Californian Gold. The plain plate, labelled "No. 2," shows 24 crystal drawings.

SCARCE. "The Author has endeavoured, in the following pages, to furnish to the Student and Amateur in Natural Science, some information about the greater part of the mineral substances that are met with, either on the surface of the earth, in rocks or in mines. There are still many others in Nature, besides those here described, but a great part of them are rare; several have never been analysed; other only partially examined, and their proper situation hardly established; and the most

of them unimportant, especially to one little acquainted with the subject."

"In accordance with the natural systems which prevail in other branches of Natural History, the classification adopted is chemical, and is nearly that of Beudant; a system which recommends itself by its simplicity."—*Advertisement*.

REFERENCES: NUC: 630, 239.

**3163. 2nd edition, 1852:** Rudimentary Treatise on Mineralogy, for the Use of Beginners. London, 1852.

12<sup>o</sup>: ?? . SCARCE.

REFERENCES: NUC: 630, 239.

**3164. 3rd edition, 1856:** Rudimentary Treatise on Mineralogy. Third edition. To which is added a Treatise on Rocks or Mineral Aggregates by James Dana ... London, 1856.

8<sup>o</sup>: 191 p., colored frontispiece, illus., plates (one folding).

SCARCE. Contains an added section by JAMES DWIGHT DANA.

REFERENCES: NUC: 630, 239 [ND 0024170].

**3165. 4th edition, 1859:** Rudimentary Treatise | on | Mineralogy. | Fourth Edition: | To Which Is Added, | A Treatise on Rocks or Mineral Aggregates, | By James Dana, A.M., | Of The United States. | Two Parts, Complete In One Volume. | With Illustrations. | London, | John Weale, 59, High Holborn. | 1859.

12<sup>o</sup>:  $\pi^2$  B-I<sup>12</sup> K<sup>10</sup>; ?? $\ell$ .; [4], [1]-191, [1], [1]-12 p., hand-colored folding frontispiece showing mineral specimens, signed J.W. Lowry.

CONTENTS: [Hand-colored frontispiece facing title page].; [2 pgs], Title page, verso "London: | Bradbury And Evans, Printers, Whete Fiars."; [1 pg], "Advertisements."—signed J.W., 1 November 1855.; [1 pg], Blank.; [1]-183, Text.; [184], Blank.; [185]-191, "Index."; [1 pg], "London: | Bradbury And Evans, Printers, Whete Fiars."; [1]-12, Publisher's list.

SCARCE. Contains an added section by JAMES DWIGHT DANA.

REFERENCES: NUC: 630, 239 [ND 0024171].

**LUCAS, Jean-André-Henri.** (BORN: Paris, France?, 1780; DIED: Paris, France, 6 February 1825) *French naturalist*.

Lucas spent much of his youthful free time roaming the Muséum d'Histoire Naturelle in Paris and reading G.L. BUFFONS monumental *Histoire Naturelle* (Paris, 1743–93). He decided early on to pursue a career in natural history and most especially mineralogy. He became officially associated with the Muséum Histoire Naturelle in Paris as a curator and purchasing agent. Because of his extensive knowledge, Lucas was hired to replace E.L.M. PATRIN as editor of *Détournées Nouveau Dictionnaire de Histoire Naturelle* (36 vols., Paris, 1816–9). In this capacity, Lucas performed the job with skill, correcting many of his predecessors errors, and proving himself a very able naturalist. He became interested in the study of Italian volcanoes, particularly those near Naples and on the Island of Sicily. He published first hand accounts of the eruptions of Mt. *Ætna* and *Vesuvius*.

REFERENCES: ABF: I 681, 118-123. • *Biographie Universelle*: 25, 411. • Feller, *Biographie Universelle*, 1851. • *ISIS*, 1913-65: 2, 116. • Lacroix, A., "Une famille de bons serviteurs de l'Académie des sciences et du Jardin des Plantes, les Lucas," *Bulletin du Muséum National d'Histoire Naturelle [Paris]*, 10, 446-71 [refers to this Lucas?]. • *Nouvelle Biographie Générale* (Hoefer): 32, 126. • Poggendorff: 1, col. 1509. • WBI.

**3166. — French, 1806-13** [Issue A].

Tableau Méthodique | Des | Espèces Minérales, | Presentant | La Série complète de leurs Caractères,

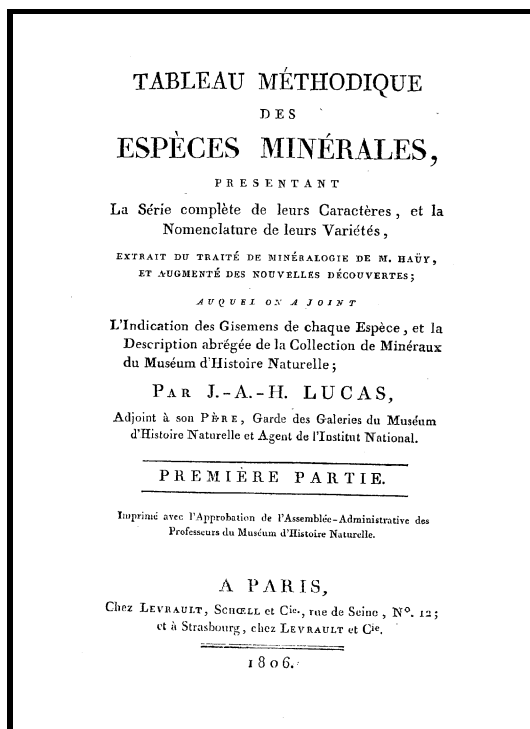


TABLEAU MÉTHODIQUE, 1806

et la | Nomenclature de leurs Variétés, | Extrait Du  
Traité De Minéralogie De M. Haüy, | Et Augmenté  
Des Nouvelles Découvertes; | Auquel On Ajoint  
| L'Indication des Gisemens de chaque Espèces,  
et la | Description abrégée de la Collection de  
Minéraux | du Muséum d'Histoire Naturelle; |  
Par J.-A.-H. Lucas, | Ajoint à son Père, Garde  
des Galeries du Muséum | d'Histoire Naturelle et  
Agent de l'Institut National. | [rule] | Première  
Partie. | [rule] | Imprimé avec l'Approbation de  
l'Assemblée-Administrative des | Professeurs du  
Muséum d'Histoire Naturelle. | A Paris, | Chez  
Levrault, Schoell et Cie., rue de Seine, N<sup>o</sup>. 12; | et  
à Strasbourg, chez Levrault et Cie. | [double rule]  
| 1806.

[TITLE PAGE OF THE SECOND PART READS:]

Tableau Méthodique | ... | Seconde Partie |  
Contenant: la Distribution méthodique des Espèces  
| minérales, extrait du Tableau cristallographique  
pu- | blié par M. Haüy en 1809, leurs Synonymies  
Française, | Allemande, Italienne, Espagnole et  
Anglaise, avec l'In- | dication de leurs Gisemens;  
auxquelles on a joint la | Description abrégée de la  
Collection de Minéraux du | Muséum d'Histoire  
naturelle et celle des Espèces et des | Variétés  
observées depuis 1806 jusqu'en 1812. | Par J.A.

# LUCAS

H. Lucas, | ... | 1813.

2 vols. [VOL 1: 1806] 8°:  $\pi^4$  A-D<sup>4</sup> E<sup>3</sup> 1-464 473; 210ℓ.; [8], [j]-xxxvii, [1]-372 p., frontispiece, one folding plate. [VOL 2: 1813] 8°:  $\pi^2$  A-C<sup>8</sup> 1-368 376; 320ℓ.; [4], [i]-xlvij, [1], [1]-587, [1] p. PAGE SIZE: 194 x 120 mm.

CONTENTS: [Vol 1] [2 pgs], Half title page, verso "De L'Imprimerie De Duminil-Lesueur, | ..."; [2 pgs], Title page, verso blank.; [1 pg], Dedication to René Just Haüy. [1 pg], Blank.; [2 pgs], Testimonials to the merits of Lucas' work, one signed by Haüy.; [j]-x, "Introduction."; [xi]-xv, "Exposition | Abrégée | De La Méthode De M. Haüy."; [xvi], "Avis Aux Minéralogistes."; [xvii]-[xxiv], "Caractères | Minéralogiques, | Principes Composans, | Et | Distribution Méthodique | Des Minéraux; | Extraits Du Traité De Minéralogie."; [xxv]-xxxvii, "Distribution | Des Minéraux | Par Classes, Ordres, Genres Et Espèces."; [1]-187, Text.; [188], Blank.; [189]-211, "Premier Appendice." [212], Blank.; [213]-223, "Second Appendice."; [224], Blank.; 225-237, "Troisième Appendice."; [238], Blank.; [239]-241, "Additions Et Corrections." [342], Blank.; [342]-348, "Tableau | Des Formes Cristallines | Des Espèces Minérales, | Extrait Du Traité De Minéralogie De M. Haüy; | Corrigé et augmenté d'après de nouvelles Observations."; [349]-364, "Table | De La Première Partie."; 365, Errata.; [366], Blank.; [367]-372, "Table Alphabétique | Des | Substances Minérales, | ..."

[Vol 2] [2 pgs], Half title page, verso "De L'Imprimerie de L. Hausmann, rue de la Harpe, n. 80."; [2 pgs], Title page, verso blank.; [i-ii], Testimonials to the merits of Lucas' work.; [iii]-vii, "Introduction."; [ix]-xii, "Disposition | De La | Collection De Minéraux | Du Muséum D'Histoire Naturelle."; [xiv], Blank.; [xv]-xxix, "Distribution Méthodique | Des | Espèces Minérales, | Adoptée par M. Haüy, en 1809, | ..."; xxx-xxxj, "Agréments De Différens Minéraux | Et | Produits Des Volcans."; [xxxij], "Les numéros qui précèdent les noms des Espèces..."; xxxij-xxxv, "Traduction Allemande | des Noms Spécifiques de M. Haüy, | ..."; xxxvj-xxxvii, "Traduction Italienne | des | Noms Spécifiques De M. Haüy, | Par M. Poggi."; xxxix-xlj, "Traduction Espagnole | Des | Noms Spécifiques De M. Haüy, | Par M\*\*\*."; xlii-xliv, "Traduction Anglaise | Des | Noms Spécifiques De M. Haüy, | Par M. Russell."; xlv-xlvij, "Traduction Latine | Des | Noms Spécifiques De M. Haüy."; [1 pg], Blank.; [1]-517, Text.; [518], Blank.; [519]-545, "Tableau Synoptique | D'Oreognoisie, | ou | Connaissance des Montagnes ou Roches, | Donné par M. Tondi, | Dans son dernier Cours particulier, en 1811."; [546], Blank.; [547]-580, "Tables | De La Seconde Partie."; [581]-586, "Table Alphabétique | Des | Substances Minérales, | ..."; 587, Errata.; [1 pg], Blank.

PLATES: The frontispiece consists of one of two portraits of Haüy. The more common impression consisting of an oval rendering within a rectangular frame showing the upper torso of Haüy facing left and holding a contact goniometer upon a rhombohedron of Iceland spar. A description contained within a rectangular frame immediately under the portrait reads, "Réné Just Haüy, | de la Légion d'Honneur et de l'Institut National; | Professeur de Minéralogie au Muséum d'Histoire naturelle. | Né à St. Just; en Picardie, le 28 Février 1743." The plate is signed "Traduit du dessin de F. Massard, par R. L'Elenor, 1804." In the lower margin of the plate is the text, "Ou savant Auteur des Traités de Physique et de Minéralogie, | J.A.H. Lucas sen Elect." In some volumes, a more uncommon frontispiece occurs. This impression shows the head and shoulders of René Just Haüy together with those of his brother, Valentine [1745-1822]. Valentine is in front of his brother. No description of the subjects appears on the plate, but the style suggests this portrait to be the work of Ambroise Tardieu [1788-1841].

The folding plate ...

VERY SCARCE. First issue of a major work

that appeared in support of Haüy's theories. The publication in 1801 of Haüy's landmark *Traite de Mineralogie* (4 vols., Paris, 1801) created a tremendous dialog within mineralogical science. Some believed wholeheartedly in Haüy's theories and proposals, while others supported views, most prominently the German school based on Werner's ideas. For the most part Lucas successfully attempts in the first part of this work to support Haüy and counter the resistance to his theories. At the same time, he also provides the reader with what is essentially an abridgment of Haüy's master work. After the introduction, Lucas gives a short exposition of Haüy's methods, and an outline of the mineralogical characteristics, principal components and the method of distributing minerals within the classification extracted and condensed directly from Haüy's work. Lucas then provides a synopsis of the minerals distributed into classes, orders, families and species. The text continues with a more detailed description of the minerals, properties and system of classification. At the end of the volume is a table listing the crystallization forms of each mineral species, "corrected and augmented with new observations."

It required seven years for Lucas to complete and publish the second part of the *Tableau Méthodique*. Part of the delay was surely due to the chaotic state of mineralogical science during this period. This was the time when new discoveries were routinely being made because of advances in crystallography with the reflecting goniometer and the improvements in chemical analysis and atomic theory. Haüy had published the *Tableau Comparatif* (Paris, 1809) in an attempt to support his original theories and provide a more recent listing of mineral species according to his classification system. Lucas begins the second part with a general description of the collection of minerals in the Muséum d'Histoire Naturelle. He then provides a synopsis of the distribution of minerals adopted from Haüy's 1809 work. A discussion and description of the minerals that aggregate into products of volcanoes is presented. This is followed by several lists that translate the mineral species names from French into German, Italian, Spanish, English, and Latin. For this purpose, Lucas had gathered help from the Italian author Giuseppe Poggi [1761-1841] and an Englishman by the name of Russell. The text then provides detailed descriptions of the mineral species, some not published before, and their placement within the Haüyian classification. At the volume's conclusion is a table providing descriptions of various mountain rocks. This is an augmented abridgment of Matteo Tondi's [1762-1835] *Tableau Synoptique d'Oréognoisie ou Connaissance des Montagnes ou Roches* (Paris, 1811).

REFERENCES: BL. • CBN: 101, cols. 277-8. • Dana's 7th (Bibliography): 76. • *Freilich Sale Catalog*: no. 371. • Hoover Collection: no. 548. • Leonard's *Taschenbuch*: 2 (1808), 355 [review, part one only]. • LKG: XII 161. • NUC: 344, 207 [NL 0534590]. • Ward & Carozzi, *Geology Emerging*, 1984: no. 1403 [part one only].

3167. Issue B, 1806: Tableau Méthodique | Des | Espèces

Minérales, | Première Partie, | Ornée Du Portrait De M. Haüy, | Contenant: la Distribution méthodique des Espèces | minérales, l'Indication de leurs Caractères, et la Nomen- | clature de leurs Variétés, extrait du Traité de Miné- | ralogie publié de M. Haüy en 1801; auxquelles on a | joint la Description des Espèces et des Variétés décou- | vertes depuis la publication de ce Traité jusqu'en 1806. | Par J.A.H. Lucas, | [...3 lines of titles and memberships...] | [tapered rule] | Paris, | D'Hautel, Libraire, rue de la Harpe, no. 80. | [ornate rule] | 1806.

VERY SCARCE. Apparently, two variant issues of the first volume of 1806 appear to exist. The issues differ from each other by a substantial change in the wording of the title page, together with smaller changes in the beginning text. There is no evidence to suggest if these two issues were published simultaneously or at different times. A search of various bibliographies suggests that the publishing firm of Levrault, Schoell et Cie. ceased to exist around 1806, perhaps due to the death of Schoell. If this is the case, an argument could be made that the publishing house of Hautel bought out the business including the remaining unsold and unbound stock of the first part of the *Tableau Méthodique*. A new title page was created with the imprint of Hautel, and subsequently added to volumes creating the variant, perhaps later issue. The text of the volume remains substantially unchanged. As stated earlier, no evidence has been uncovered to suggest which issue if either is first; however, on the whim of this bibliographer, the copies with the second title page are considered the second issue.

### 3168. — French, 1818.

De la minéralogie. Paris, A. Lanoe, 1818.

8°: 86 p. tables. "Article extrait du XXIIe volume du Nouveau dictionnaire d'histoire naturelle (2e édition), publié par M. Deterville." VERY SCARCE.

### 3169. — French, 1803.

Tableau methodique des esepes minerales, offrant l'indication de leurs caracteres et la nomenclature de leurs varietes, extrait du traite de mineralogie de Haüy. Paris et Strasbourg, 1803.

8°: VERY SCARCE.

REFERENCES: LKG: XII 160.

### LUCHET, Jean Pierre Louis de, Marquis.

REFERENCES: Poggendorff: 1, col. 1509.

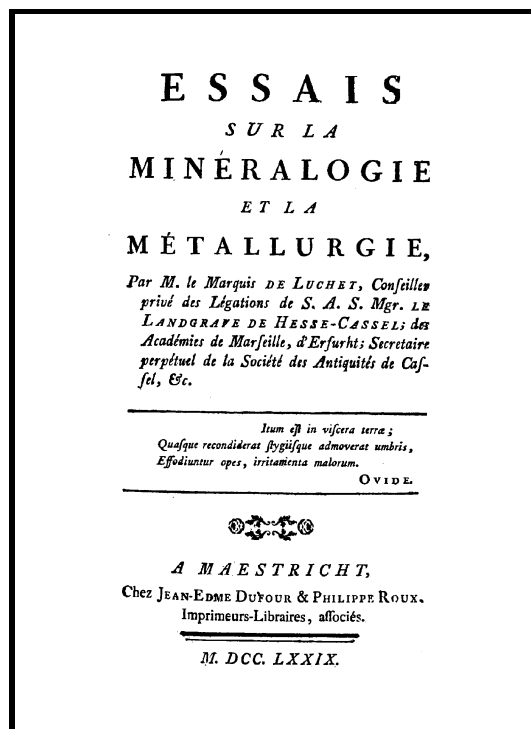
### 3170. — French, 1779.

Essais | Sur La | Minéralogie | Et La | Métallurgie, | Par M. le Marquis de Luchet, Conseiller | [...5 lines of titles and memberships...] | [rule] | [...3 lines of quotation, signed Ovide...] | [ornament] | A Maestricht, | Chez Jean-Edme Dufour & Philippe Roux, | Imprimeurs-Libraires, associés. | [double rule] | M. DCC. LXXIX.

8°:  $\pi^2$  a<sup>8</sup> b<sup>6</sup> A-O<sup>8</sup> P<sup>4</sup>; 132ℓ.; [4], [i]-xxvij, [1], [1]-232 p. PAGE SIZE: 206 x 124 mm. VERY SCARCE.

CONTENTS: [2 pgs], Half title page, "Essais | Sur La | Minéralogie | Et La | Métallurgie," verso blank; [2 pgs], Title page, verso blank; [i]-xxiv, "Discours | Préliminaire."; xxv-xxvij, "Table | Des Chapitres."; [1 pg], Blank; [1]-232, Text.

REFERENCES: Hoover Collection: no. 549. • LKG: VI 77.



ESSAIS SUR LA MINERALOGIE, 1779



CHRISTIAN FRIEDRICH LUDWIG

**LUDWIG, Christian Friedrich.** (BORN: Leipzig, Germany, 19 May 1757; DIED: Leipzig, Germany, 8 July 1823) *German mineralogist.*

Son of CHRISTIAN GOTTLIEB LUDWIG, Christian Friedrich was professor extraordinary of medicine (1782) and from 1787, professor ordinary of natural history at the University of Leipzig.

REFERENCES: DBA: I 787, 23-34; II 835, 413. • Drugulin, *Sechstausend Portraits*, 1863: nos. 3448-50. • Hamberger & Meusel, *Gelehrte Teutschland*, 1796-1834. • Poggendorff: 1, col. 1513. • Schrader, *Biographisch Lexicon der Tierärzte*, 1863. • WBI.



## LUDWIG

### 3171. — German, 1803-4.

Handbuch | der | Mineralogie | nach | A.G. Werner. | Zu | Vorlesungen entworfen | von | Chrisitan Friedrich Ludwig | Professor in Leipzig, | [tapered rule] | Erster Theil. | Oryctognosie. | [tapered rule] | Mit einer Farbentabelle und vier Kupfertafeln. | [tapered rule] | Leipzig 1803 | bey Siegfried Lebrecht Crusius.

2 Theilen. [Theil 1: 1803] 8°: [Theil 2: 1804] 8°: [i]-xii, [1]-226 p., 4 tables.

CONTENTS: [Theil 1]

[Theil 2] [i-ii], Title page, verso blank.; [iii]-xii, "Vorrede."—signed C.F. Ludwig, 9 April 1804.; [1]-198, Text.; 199-208, "Beylagen | zu der | Auswahl einer brauchbaren Litteratur | ..."; 209-218, "A.G. Werners | Mineral-System | vom Jahre 1803."; 219-226, "Register | über die | Gebirgsarten, Versteinerungen und neuern | Fossiliengattungen."; [At end], Tables.

VERY RARE. A work in two parts supporting Werner's theories of mineralogy, geology, and palaeontology. The first part deals with 'Oryctognosie' or the determinative mineralogy. It is supported with a colored table and four copper plates. The second part deals with petrology and petrifications and contains four tables.

REFERENCES: Dana's 7th (Bibliography): 76. • LKG: XII 163. • Ward & Carozzi, *Geology Emerging*, 1984: no. 1405.

### 3172. — Latin, 1790.

Delectus opuscul. ad histor. natur. spectant. V. 1. Leipzig, 1790.

8°: VERY SCARCE.

REFERENCES: LKG: VI 99.



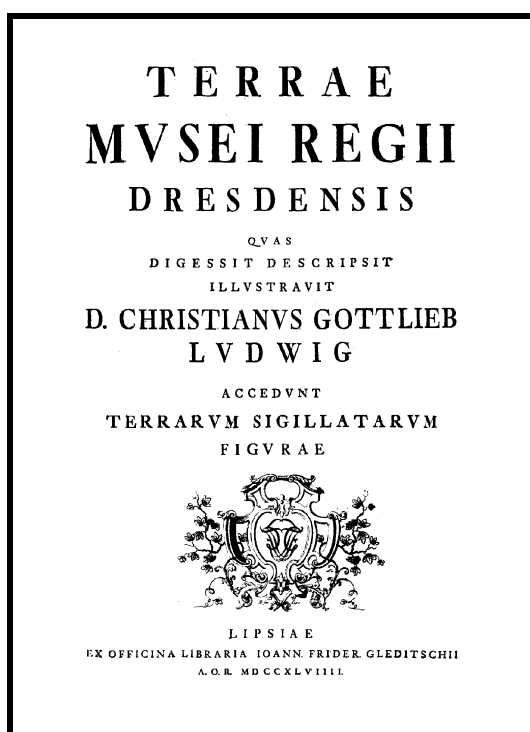
CHRISTIAN GOTTLIEB LUDWIG

**LUDWIG, Christian Gottlieb.** (BORN: Brieg, Schlesien, Germany, 30 April 1709; DIED: Leipzig, Germany, 7 May 1773) *German physician & naturalist.*

Ludwig enrolled at the University of Leipzig in 1728. There he studied medicine and natural history, especially botany. He must have made a favorable impression,

because in 1731, when JOHANN ERNST HEBENSTREIT was appointed to mount an expedition to Africa to be financed by the Saxon government, he asked Ludwig, his student, to accompany him. On Ludwig's return to Leipzig, he continued his medical studies, and in 1736 was awarded an M.D. In 1740, he was named professor extraordinary of medicine and in 1755 professor of Anatomy and Chirurgie, followed by pathology in 1758. He was elected dean of the faculty. Ludwig wrote extensively in the fields on medicine and natural history, particularly botany.

REFERENCES: ADB. • *Biographie Universelle*. • DBA: I 787, 36-87; 787, 90; II 835, 415-416. • Eitner, *Quellenlexikon*, 1959. • Hirsch, *Biographisches Lexikon*, 1884-8. • Hirsching, *Historisch-literarisches Handbuch*, 1794-1815. • Jöcher, *Gelehrten-Lexikon, Supplement*. • Meusel, *Verstorbenen Teutschen Schriftsteller*, 1802-16. • *Nouvelle Biographie Générale* (Hoefer). • Poggendorff: 1, cols. 1512-3. • WBI.



TERRAE MVSEI REGII DRESDENSIS, 1749

### 3173. — Latin, 1749 [Collection catalog].

Terrae | Mvsei Regii | Dresdensis | Qvas | Digessit Descripsit | Illvstravit | D. Christianvs Gottlieb | Lvdwig | Accedvnt | Terrarvm Sigillatarvm | Figvrae | [ornament] | Lipsiae | Ex Officina Libraria Ioann. Frider. Gleditschii | A.O.R. MDCCXLVIII.

2°: [a]<sup>2</sup> b-d<sup>2</sup> A-Gggg<sup>2</sup> Hhhh<sup>1</sup>; 162ℓ.; [i]-xvi, [1]-298, [8] p., 12 plates. PAGE SIZE: 380 x 246 mm.

CONTENTS: [i-ii], Title page, verso blank.; iii-xi, "Praefatio."; xii-xvi, "Pracipui | qui de Terris scripserunt | Auctores." [=250 references]; [1]-298, Text.; [7 pgs], "Index."; [1 pg], Blank.

RARE. Describes the earths and mineral specimens contained in the collections of the Dresden

Museum. Although focused on specimens found in Saxony, other localities are represented. The author has included copious linguistic remarks about the historic use of the mineral names, rich references to other literature, and an overall classification. Another section which is described in chapter 4 and fully illustrated on the 12 accompanying plates describes the “De terris sigillatis” (sealed earths) held in the collection. In ancient times, these were clays used for medicinal purposes.

The text is divided into six chapters that consists of: 1. De Terra in Genere (pp. 1-15), 2. De Terrarvm Generibvs (pp. 16-76), 3. De Terrarvm Specibvs (pp. 77-192), 4. De Terris Sigillatis (pp. 193-243), 5. De Terris Physice Consideratis (pp. 244-274), and 6. De Terris Medice Consideritis (pp. 275-298).

REFERENCES: Beekman, *Systematische Mineralogie*, 1906: 36. • BL. • Fischer, *Mineralogie in Sachsen*, 1939: 108-16. • Freiesleben, *Sächsische Mineralien-Verzeichnisse*, 1828: no. 10. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 262-3. • Lambrecht & Quenstedt, *Catalogus*, 1938: p. 215. • *Leipziger gelehrte Zeitung*: 1749, 766. • LKG: XVI 8. • Murray, *Museums*, 1904: 2, 215. • NUC. • Wagner, *Mineralogisch Durchforschung Sachsens*, 1902: 93.

**LUEDECKE (Lüdecke), Otto Paul.** (BORN: Teutschental near Halle, Germany, 8 June 1851; DIED: Friedrichsroda, Germany, 6 September 1910) *German mineralogist.*

Luedecke (or Lüdecke) studied at Halle and Strasbourg. In 1876, he received his Ph.D. from the University of Halle, where from 1884, he was professor extraordinary in mineralogy.

REFERENCES: Barr, *Index to Biographical Fragments*, 1973: 161. • DBA: II 837, 69-75; 843, 43. • Lambrecht & Quenstedt, *Catalogus*, 1938: 271. • Poggendorff: 3, 841-2, 4, 921-2 & 5, 774. • WBI.

### 3174. — German, 1896.

Die | Minerale Des Harzes | [rule] | Eine Auf  
Fremden Und Eigenen Beobachtungen | Beruhende  
Zusammenstellung Der Von Unserem Heimischen  
Gebirge | Bekannt Gewordenen | Minerale Und  
Gesteinsarten | von | Dr. Otto Luedecke | A.O.  
Professor Der Mineralogie An Der Universität In  
Halle A.S. | [short rule] | Mit Einem Atlas Von 27  
Tafeln Und 1 Karte | [ornate rule] | Berlin | Verlag  
Von Gebrüder Borntraeger | 1896.

Text and atlas. [Text] 8°: [i]-xii, [1]-643, [1] p.; [Atlas] 8°: [2] p., 27 plates, folding map.

CONTENTS: [Text] [i-ii], Half title page, “Dr. Otto Luedecke, | Die Minerale Des Harzes,” verso blank.; [iii-iv], Title page, verso blank.; [v], Dedication to Karl August Lossen.; [vi], Blank.; [vii]-viii, “Vorwort.”—dated July 1896.; [ix]-xii, “Inhaltsverzeichnis.”; [1]-609, Text.; [610]-643, Indexes including authors (p. 610-615), subjects (p. 615-624), and localities (p. 624-641).; [1 pg], Printer’s information.

[Atlas] [2 pgs], Title page, verso blank.; 27 plates.; One map.

VERY SCARCE. One of the great topographical mineralogies, *Die Minerale des Harzes* attempts to give a complete mineralogical description of the Harz mountains of Germany, which has for centuries provided

many remarkable mineral specimens. Beginning around 1880, Lüdecke devoted himself to his project, using not only his own extensive reference collection, but a number of other public and private ones as well; thus the amount of study material at the authors disposal was very large. Besides his own competent observations, the author gives a summary of earlier literature and work of other mineralogists. The book becomes, therefore, a complete series of monographs covering the important mineral localities of the region. Arrangement of the species is by a chemical classification, with detailed discussion of crystallization, occurrence, and mineral associations. In the case of common species, such as galena, a greater geological description of the particular regions involved is given. The plates show figures of the notable species together with their spherical projections. A chart of the region showing the mineral viens is added as are detailed ones for Andreasberg and Clausthal.

REFERENCES: *American Journal of Science*: 4th Series, 2 (1896), 460-1. • Dana’s 7th (Bibliography): 76.

### LUMEN ANIMAE.

**3175. — Latin, 1477** [September 3].

*Lumen Animae* ... [Augsburg, Anton Sorg, 3 September 1477].

2°: [1-5<sup>10</sup> 6<sup>8</sup>; 7-12<sup>10</sup> 13<sup>8</sup> 14-30<sup>10</sup> 31<sup>8</sup> 32-37<sup>10</sup> 38<sup>6</sup>] (unsigned; 7/1 blank); 370ℓ.; no pagination, foliation or signiatures. Capital spaces left blank. The number of lines per page varies considerably. Includes indexes. Signiatures in manuscript are recorded in the British Library copy as follows: A-E<sup>10</sup> F<sup>8</sup> a-f<sup>10</sup> g<sup>8</sup> h-z<sup>10</sup> A<sup>10</sup> B<sup>8</sup> C-H<sup>10</sup> I<sup>6</sup>. PAGE SIZE: 287 x 205 mm.

CONTENTS: 1/1v (=1v), “Liber moralitatum elegantissimus / magnarum reꝝ naturalium | (Lumen anime dictus. cum septem apparitoribus. necnon san= | ctorum doctoꝝ. orthodoxe fidei professorum. Poetarum eciam | ac oratorum auctoritatibus. per modū pharatre scōm ordinem | alphabeti collectis) feliciter incipit.”; 1/2r (=2r), “[Q]Vamuis athenaꝝ. grecorūqꝫ ml’tiplicata volumīa | ...”; 1/2v (=2v), line 37: “Secuntur tituli scōm ordinem | in Hoover Catalog libor positorum.”; 1/3v-3/1v (=3v-31v), “Tabula prima rerum Naturalium.”; 3/2r-6/8v (=32r-58v), “Tabula secunda Moralitatum.”; 7/2r-26/6r, Prima pars.; 26/6v-27/7r, “De septe[m] apparitorib[us].”; 27/7v-27/9r, Tabula.; 27/9v-38/6r, Secunda pars.; 38/6r (=370r), COLOPHON: “Liber lumen anime dictus feliciter explicit. Qui per me Antho | nium Sorg ciuem Augusteñ. artis impressorie magistrum. post | diutinam occultationem (coop-erantibus michi in primis diuina | gratia. De post venerabilium fratru beate Marie genitricis dei | de monte Carmeli. Benigno fauore pariter ⁊ auxilio) non sine | magnis laboribus. ad laudem omnipotentis dei. tocusqꝫ triūphā | tis ecclesie honorem ⁊ decorem. atqꝫ in maiorem fructum ipsius | militantis ecclesie piorum filiorum. simulqꝫ vtilitatem. vbi supra | stagneis caracteribus. primum in lucē ē productus. Annoqꝫ a | natiuitate domini. .i.4.77. Tercia die mēsis Septembris (omni | cum diligentia) completus.”

EDITIO PRINCEPS. Very rare. A late 13th- or early 14th-century encyclopedic work attributed to Berengarius de Landora [see note below] and sometimes wrongly attributed to the Viennese Carmelite monk, Matthias Farinator [fl. 1477], who compiled the index and edited the text. The *Lumen Animae* (Light of the Soul) is a curious handbook of illustrative

## LUMEN ANIMAE

sermons for preachers, to explain the natural and moral world. Collison gives the following description: "The anonymous *Lumen Animae*, compiled about 1300, comprises two books of 75 titles and 267 chapters respectively. These chapters are arranged in rough alphabetical order. The materials collected in them are drawn chiefly from patristic sources or moral writers, and there are few items dealing with the natural sciences." This first printing was the work of Anton Sorg [see note below].

**Berengarius de Landora.** (BORN: 1262; DIED: 1330) *German author.*

[  
[ BIOGRAPHY NEEDED ]  
]

**Anton Sorg.** (BORN: ; DIED: ) *German printer.* Sorg's first printed book appeared in February, 1475. He continued to print until December, 1493.

REFERENCES: BL. • BMC XV: 2, 344 [IB 5811]. • Collison, *Encyclopaedias*, 1966: 66-7. • *Deutsche Literatur des Mittelalters.* • *Dictionary of the Middle Ages.* • Goff: L-393. • Hain, *Repertorium Bibliographicum*, 1826-38: 10329\*. • IGI: no. 3803. • Klebs, *Incunabula Scientifica*, 1938: no. 631.1. • NUC: 345, 475 [NL 0556250]. • Pellechet, *Catalogue General des Incunables*, 1970: no. 4747. • Polain, *Catalogue*, 1932: no. 1466. • Proctor, *Index*, 1898-1906: no. 1650. • Sarton, *Introduction*, 1928-52: 1, 763 [attributes the *Lumen animae* to Theophilus, a German monk of the 11th century.]. • Stammler, *Deutsche Literatur des Mittelalters*, 1933-55: 1, 195-6, 606-8 & 3, 194-9. • Thorndike, *History of Magic*, 1923-58: 3, p. 546-7. • Wellcome Catalog (Books): 1, no. 2173. (Landora) *Deutsche Literatur des Mittelalters.* • *Dictionary of the Middle Ages.* • Stammler, *Deutsche Literatur des Mittelalters*, 1933-55. (Sorg) BMC XV.

### 3176. — Latin, 1477 [December 31].

Liber moralitatum elegantissimus magnarū rerum naturalium Lumen anime dictus: cum septem apparitoribus. necnon sanctorū doctorū[m] orthodoxe fidei professorum. Poetarum etiam ac oratorū auctoritatib[us]. per modum pharatre s[ecundu]m ordinē alphabeti collectis. feliciter incipit. [Augsburg, Gunther Zainer, 31 December 1477].

2°: [1-4<sup>10</sup> 58; 6-16<sup>10</sup> 17<sup>12</sup> 18-25<sup>10</sup>26-35<sup>10</sup>] (unsigned; 1/1 and 6/1 blank); 350ℓ.; no pagination, foliation or signiatures. Capital spaces, most with guide letters. A variant state is known in which the colophon is wanting.

CONTENTS: 1/3v-2/9r, "Tabula prima rerum naturalium."; 2/9v-5/8v, "Tabula secunda Moralitatum."; 6/2r-24/10r, Prima pars.; 24/10v-25/10v, "De septe[m] apparitorib[us]."; 26/1r-26/2v, "Tabula."; 26/3r-35/10r, Secunda pars.; 35/10r, COLOPHON: Liber lumen anime dictus feliciter explicit. Qui ... stagneis caracteribus: primum in lucem est productus. Annoq; a natiuitate d[omi]ni Millesimo quadringentesimo eptuagesimoseptimo. Vltima die decembris(summa cu[m] dilige[n]tia) co[m]pletus.

VERY RARE. Printed by Gunther Zainer [see note below].

**Gunther Zainer.** (BORN: ; DIED: ) *German printer.*

[  
[ BIOGRAPHY NEEDED ]  
]

REFERENCES: BMC XV: 2, 325 [IB 5499]. • Goff: L-394. • Hain, *Repertorium Bibliographicum*, 1826-38: no. 10330\*. • IGI: no. 3804. • NUC: 345, 475 [NL 0556253].

• Oates, *Cambridge 15th Century Books*, 1954: no. 879. • Proctor, *Index*, 1898-1906: no. 1552. • Walsh, *15th Century Printed Books*, 1991-2001: no. 526. • Wellcome Catalog (Books): 1, no. 2174. (Zainer)

### 3177. — Latin, 1479 [July 7].

Lumen Animae ... [Reutlingen, Michel Greyff] 7 July 1479.

2°: [1<sup>10</sup> 26 3-48 5<sup>10</sup> 68 96 10-298 30-328 33-346 35-368] (unsigned; 1/1 blank).; 268ℓ.; no pagination, foliation or signiatures. Capital spaces. Signatures in manuscript are recorded in the British Library copy as follows: aa<sup>10</sup> bb<sup>6</sup> cc-dd<sup>8</sup> a<sup>10</sup> b<sup>8</sup> c<sup>6</sup> d-z<sup>8</sup> A-C<sup>8</sup> D-E<sup>6</sup> F-G<sup>8</sup>. PAGE SIZE: 279 x 200 mm.

CONTENTS: 1/1, Blank.; 1/2r (=2r), "Liber moralitatum elegantissimus magnarum rerum naturalium | Lumen anime dictus. cum septem apparitoribus. necnō sanctoꝝ do= | ctoꝝ orthodoxe fidei p̄fessorum. Poetarum etiam ac oratoꝝ auctori | tatib[us]. p̄ mod' pharatre fm ordinē alphabeti collectis. feliciter incipit."; 4/6v (=32v), line 44: "Tabula moralitatū Secunda super Lumē anime finit feliciter."; 4/7r (=33r), "[S]Vmmi mihi pontificis fauente g̃ra ei' p̄iter ad instinc | tum hūc decreui ad laudē dei ac in salutē pximi ꝑ̄pilare | edergꝫ tractatū ..."; 36/8r (=268r), COLOPHON: "Liber lumen anime dictus feliciter explicit. Qui post diutinaꝝ oc | cultationeꝝ diuina coopante gracia. non sine magnis laborib[us] ad lau | dem omnipotentis dei. tociusq; triumphantis ecclesie honorem ꝛ de | corem. atq; in maiorem fructum ipsius militantis ecclesie piorū fī= | liorum. simulq; vtilitatem. stagneis caracterib[us]. primum in luceꝝ est | p̄ductus. Annoq; a natiuitate dñi. Milesimoquadringentesimo sep | tuagesimo nono quarta feria post v̄dalcrici. sūma cū diligētia ꝑ̄pletꝫ."

RARE. Printed by Michel Greyff [see note below]. Apparently set up from Sorgs edition of 3 September 1477, from which the colophon is taken over with some abridgement. (BMC)

**Michel Greyff.** (BORN: ; DIED: 1496) *German printer.*

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[ BIOGRAPHY NEEDED ]  
]

REFERENCES: BMC XV: 2, 576 [IB 10639 & 466n]. • Goff: L-395. • Hain, *Repertorium Bibliographicum*, 1826-38: HC 10331\*. • Klebs, *Incunabula Scientifica*, 1938: no. 631.3. • NUC: 345, 475 [0556254]. • Pellechet, *Catalogue General des Incunables*, 1970: no. 4748. • Polain, *Catalogue*, 1932: no. 1467. • Proctor, *Index*, 1898-1906: no. 2689. (Greyff) ADB. • BMC XV: 2, ?? . • DBA: I 420, 344; 433, 210; II 477, 293. • NDB. • WBI.

### 3178. — Latin, 1482 [March 22].

Liber moralitatum elegantissimus magnarum rerū naturalium lumen anime dict[us]: cū septē apparitorib[us] necnō sanctorū doctorū orthodoxe fidei p̄fessorum Poetarū etiā ac oratorū auctoritatib[us] p[er] modum pharatre s[e]c[un]d[u]m ordinē alphabeti collectis feliciter incipit. [Strasbourg, Printer of the 1481 Legenda aurea, 22 March 1482].

2°: [1-38 4<sup>10</sup>; 5-168 176 18-338 34<sup>10</sup>] (unsigned; 1/1 and 34/10 blank); [274]ℓ.; no pagination, foliation or signiatures. Two columns, 43 lines, capital spaces. Printed on sheets of "chancery"-size paper. Includes indexes. RARE.

CONTENTS: 1/3r-2/5r, "Tabula naturalium[m]."; 2/5r-4/10r, "Tabula moraliu[m]."; 5/1r-31/4r, [Prima pars].; 31/4r-32/4v, "De septe[m] apparitorib[us]."; 32/5r-32/6v,

"Tabula."; 32/7r-34/9v, Secunda pars.; 34/9v, COLOPHON: "Liber lumen anime dictus feliciter explicit. Qui post diutinam occultationem diuina cooperante gratia: no[n] sine magnis laborib[us] ... stagneis caracterib[us] in lucem est productus. Anno a natiuitate domini. Millesimo-quadri[n]gesimo-octo-uagesimosecundo sexta feria post Letare. summa cum diligentia completus."; 34/10, Blank.

REFERENCES: BMC XV: 1, 97 [IB 1257]. • Goff: L-396. • Hain, *Repertorium Bibliographicum*, 1826-38: HC 10333\*. • Klebs, *Incunabula Scientifica*, 1938: no. 631.4. • NUC: 345, 475 [NL 0556259]. • Oates, *Cambridge 15th Century Books*, 1954: no. 172. • Pellechet, *Catalogue General des Incunables*, 1970: no. 4749. • Polain, *Catalogue*, 1932: no. 1468. • Proctor, *Index*, 1898-1906: no. 413. • Wellcome Catalog (Books): 1, no. 2175.

**LUNDSTRÖM, Carl Herman.** (BORN: Stockholm, Sweden, 1828; DIED: Filipstad, Sweden, 1902) *Swedish mining engineer, teacher & politician.*

Lundström received a Ph.D. from Uppsala University in 1851. Position as teacher in mineralogy and chemistry at the mining school in Filipstad from 1854. From 1860-90 head of the same school.

REFERENCES: *Nordisk Familjebok*: 16, col. 1424.

### 3179. — Swedish, 1866.

Anvisning | till | blåsörrets begagnande | vid | kvalitativa kemiska undersökningar | utarbetad | af | C. H. Lundström, | grufve-ingenieur, föreståndare för Filipstads Bergsskola. | [ornate rule] | Stockholm, 1866. | P.A. Norstedt & söner, | Kongl. Boktryckare.

8°:  $\pi^2$  1-58 65; 47 $\ell$ .; [4], [1]-89, [1] p., one folded plate, illustrations in text.

CONTENTS: [2 pgs], Title page, verso blank.; [2 pgs], Contents, verso blank.; [1]-89, Text.; [1 pg], Blank.

RARE. Manual in the art of blow-piping aimed primarily at qualitative mineralogical investigations. [Entry by *Johan Kjellman*]

REFERENCES: NUC.

**MACARTHUR, Leslie W.A.**

### 3180. — English, 1895.

The | Australian Miner's | A B C | Of | Practical Mineralogy. | By | Leslie W.A. Macarthur, F.G.S. | Mineralogist, & c. | (Formerly Warden of Goldfields.) | How to Acquire Mining Tenements in the | Australian Colonies. | Process For Gold Saving. | Simple Analysis to Test Ores Containing all | Metals of Commerce. | A Handy Manual of Ready Reference for the Guidance | of Prospectors and Miners Generally. | [All Rights Reserved.] | [rule] | Melbourne: | A.H. Massina & Co., Printers And Publishers, | Howey Street, off Little Collins Stree. | 1895.

8°: [1]-122, [6] p., illus., adverts. PAGE SIZE: 185 x 120 mm.

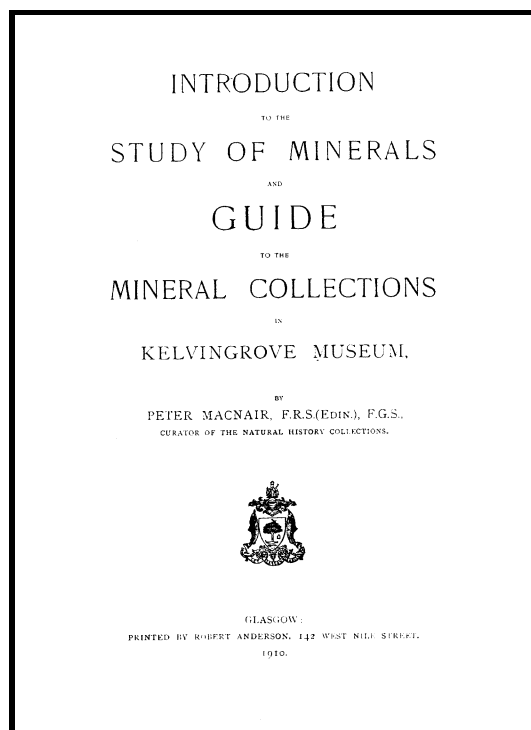
CONTENTS: [1], Advertisement, "The Australian Journal."; [2], Advertisement, "Leslie W.A. Macarthur, F.G.S."; [3-4], Title page, verso blank.; [5]-[6], "Publisher's Preface."; [7], "Introduction."—signed Leslie W.A. Macarthur, 15 April 1895.; [8], "Table Of Contents."; [9]-122, Text.; [1 pg], "Addendum."; [5 pgs], Advertisements.

SCARCE. The author was formerly Warden of Goldfields. "We have no hesitation in placing this comprehensive Manual before the mining community and public generally. The extensive practical experience of the author throughout the Australasian gold and silver fields, as well as his recognition by the highest English scientific authorities, gives warranty to the deductions he has arrived at with regard to the gold fields of the Australian colonies. The unique and graphic description of the why and wherefore many mines have failed to pay is in itself a useful and instructive work to intending investors in gold mining ventures; whilst to the practical miner, every care has been taken to afford concise information of a nature that will be appreciated, whether it be mining manager, prospector, or ordinary miner."—*Preface.*

REFERENCES: BL: [YA.1997.a.15860]. • Ferguson, *Bibliography of Australia*, 1941-69: no. 11828.

**MACNAIR, Peter.** (BORN: 1868; DIED: 1929) *Scottish geologist.*

Macnair was a lecturer on geology and mineralogy at the University of Glasgow as well as the curator of the Natural History Collections, Kelvingrove Museum. F.R.S.E. & F.G.S.



INTRODUCTION, 1910

### 3181. — English, 1910 [Collection catalog].

Introduction | To The | Study Of Minerals | And | Guide | To The | Mineral Collections | In | Kelvingrove Museum, | By | Peter Macnair, F.R.S. (Edin.), F.G.S., | Curator Of The Natural History

## MADRID, SPAIN

Collections. | [ornament] | Glasgow: | Printed By Robert Anderson, 142 West Nile Street. | 1910.

8°:  $\pi^8$  B-D<sup>8</sup> E<sup>3</sup>; 35 $\ell$ .; [1]-70 p., frontispiece (pseudogaylussite), 61 text figs. PAGE SIZE: 216 x 140 mm.

CONTENTS: [1-2], Title page, verso blank.; [3], Preface, signed Jas. Paton.; [4], Blank.; [5]-6, "Contents."; 7, "Plan of Mineralogical and Geological Gallery."; [8], Blank.; [9]-65, Text.; 66-70, "Index."

VERY SCARCE. This guide to the mineral collections in the Kelvingrove Museum Glasgow, Scotland was written to also serve as an introductory text to the study of mineralogy. The text first illustrates broad principals of the science, then it uses a systematic arrangement of the collection to reinforce those principals. A student using this guide to view the Museum's collection can move case to case and examine specimen properties such as crystal form, chemical composition, physical and optical properties. Then the student can progress to the systematic collection and work from elements to complex oxides, pseudomorphs, and precious stones. A concluding section gives a history of the collection. A map on page 7 shows the arrangement of the cases.

2nd edition, 1921: *Introduction to the Study of Minerals and Guide to the Mineral Collections in the Kelvingrove Museum Glasgow*. By Macnair Peter. Glasgow, Hay Nisbet, 1921. viii, 94 p., illus. [BL, 07106.de.22.].

REFERENCES: BL: [W36/3140].

**MACQUART, Louis Charles Henri.** (BORN: Rheims, Germany, 5 December 1745; DIED: Paris, France, 12 June 1808) *French mineralogist*.

Macquart was professor of Natural History at the Central School of Seine-et-Marne. Conservator of the collections at Fontainebleau.

REFERENCES: ABF: I 686, 322-330. • *Biographie Universelle*. • Feller, *Biographie Universelle*, 1851. • LKG: 295. • *Nouvelle Biographie Générale* (Hoefel). • Poggendorff: 2, col. 7. • WBI.

**3182. — French, 1789** [First edition].

Essais | Ou | Recueil De Mémoires | Sur Plusieurs Points | De Minéralogie, | Avec la Description des Pièces déposées chez | le Roi, la Figure, & l'Analyse chimique | de celles qui sont les plus intéressantes, | & la Topographie de Moscow. | Après un Voyage fait au Nord par ordre | du Gouvernement. | Par M. Macquart, Docteur-Régent de la | Faculté de Médecine de Paris, Membre de la Société | Royale de Médecine, &c. &c. | [ornament] | A Paris, | Chez Cuchet, Libraire, rue & hôtel Serpente. | [double rule] | M. DCC. LXXXIX. | Avec Privilèges de plusieurs Académies.

8°:  $\pi^1$  a-b<sup>8</sup> A-Z<sup>8</sup> 2A-2N<sup>8</sup> 2O<sup>2</sup>; 308 $\ell$ .; [i]-xxxvj, [1]-580 p., 7 plates. PAGE SIZE: 198 x 120 mm.

CONTENTS: [i-ii], Half title page, verso blank [missing from copy examined]; [iii-iv], Title page, verso blank.; v-xxvii, "Introduction."; xxix-xxxvj, "Table | Des Matières."; [1]-566, Text.; 567-574, "Explication Des Planches."; 575-580, Extracts from scholarly publications describing the merits of Macquart's mineralogy.; [At end], 7 plates.

PLATES: All plates are pasted to fold-out leaves. Each is signed in a fashion similar to Fossier del Sellier sculp. They comprise: Pl. I. Fossils (7 figs.). II. Rocks (4 figs.). III. Minerals and crystals (5 figs.). IV. Crystals (12 figs.). V. Minerals and crystals (4 figs.). VI. Fossils (7 figs.). VII. Fossil shells (6 figs.).

VERY SCARCE. Describes various mineralogical aspects of the Russian empire. This work is divided into eight monographs, the topics of which are as follows: (1) chalcedony pseudomorphs after gypsum found in Poland. (2) The celebrated and ancient salt mine at Wieliczka, Poland. (3) Description of a gold mine at Beresof, Siberia. (4) An account of a mine in Siberia where the mineral crocoite is found. (5) A chemical analysis of the mineral crocoite. (6) Description of copper mines in Siberia. (7) The iron mines of that area. (8) Analysis of the mineral cerussite, from specimens found at Nerchinsky, Siberia. Also included in this last memoir is a curious topographical description of the city of Moscow and its surroundings.

REFERENCES: BL: [996.c.13.]. • *English Review*: 15 (1790), 454-60. • LKG: XIV 768.

**3183. German transl., 1790:** Beschreibung | einer | auf Befehl der Regierung | nach | den Norden | gemachten | Reise | enthaltend | Abhandlungen über mehrere Gegenstände der Mine= | ralogie: Beschreibung der in die königl. Sammlung | abgegebenen merkwürdigsten Stücke: eine Ortbeschrei= | bung von Moskau, mit vielen interessanten statisti= | schen Bemerkungen | von Herrn Macquart | Doktor der Arzneigelahrtheit, Mitglied der königlichen | medizinischen Gesellschaft c. | [rule] | Aus dem | Französischen übersetzt. | Mit Anmerkungen begleitet | von | Fibig und Nau. | Mit 7. Kupfern. | [rule] | Frankfurt am Main | in der Hermannischen Buchhandlung | 1790. 8°: [4], 628, [8] p., 7 folding plates.

RARE. Translation by JOHANN FIBIG and Bernhard Sebastian Nau [see note below] of *Essais ou Recueil de Mémoires sur Plusieurs points de Minéralogie* (Paris, 1789).

**Bernhard Sebastian Nau.** (BORN: 1766; DIED: 1845) *German mineralogist*. Nau was a member of the Bavarian Academy of Science.

REFERENCES: BL: [791.d.39.]. • LKG: XIV 769a. (Nau) ADB. • DBA: I 885, 44-57; II 936, 421-430. • Hamberger & Meusel, *Gelehrte Teutschland*, 1796-1834. • *Hessische Biographien*. • *Neuer Nekrolog der Deutschen*. • Poggendorff: 2, col. ?? . • WBI.

**MADRID, Spain. Escuela De Minas.**

Centenario de la Escuela de Minas, 1777-1877. (Madrid, 1877).

See: Maffei, Eugenio.

**MAFFEI, Eugenio.** (BORN: ; DIED: c1880) *Spanish mine engineer & science historian*.

Maffei, Eugene (fl. 1860-1880), engineering, history of science. He is lamentable that a figure of the importance of Maffei for the history of science has not been object still of a mini study that centers its biography and activities. Between these only those are known that personally inserted in their works, that let us know that he was engineer of mines and that it explained straight administrative and mining economy in the School of Engineers of Mines of Madrid. However, its extraordinary work in please history advises to leave to the margin the merits that could acquire in the exercise of their profession. In effect, Maffei and his companion and friend Ramon Rúa Figueroa (v.), initiated in 1857 work of data summary biographical and bibliographical which he would take to them in 1871-1872 to the publication of his Notes, that consist of five thousand bibliographical descriptions, with

biographical notes of most of the authors who mention. Books, pamphlets, articles and manuscripts relative " to the knowledge and operation of the mineral wealth and to auxiliary sciences " are considered in the work; the work is developed with great meticulousness and manifest honesty, which makes trustworthy, in general, the reviewed data. Whatever later have wished to dedicate themselves to historical geology, chemistry, some branches of engineering and connected matters, have been seen in the obligation contract a debt of gratitude with Maffei and Rúa Figueroa.

REFERENCES: ABE: III 348, 42-43. • López Piñero, *Diccionario Histórico*, 1983: 2, 13. • WBI.

### 3184. — Spanish, 1871-2.

Apuntes | Para Una | Biblioteca Española | de libros, folietos y artículos, impresos y manuscritos, | relativos al conocimiento y explotación de las riquezas minerales | y á las ciencias auxiliares. | Comprenden La Mineralogía Y Geología En Toda Sus Aplicaciones; La Hidro- | geología; La Química Analítica, Docimástica Y Metalúrgia; La Legislación | Y Estadística Mineras; Memorias É Informes Acerca De Estos Ramos | Del Saber Humano, Concernientes Á La Península Y Á Nuestras | Antiguas Y Actuales Posesiones De Ultramar. | Acompañados de reseñas biográficas y de un ligero resumen de la mayor | parte de las obras que se citan, | Por | D. Eugenio Maffei Y D. Ramon Rua Figueroa, | Ingenieros Del Cuerpo De Minas. | [ornate rule] | Madrid: | Imprenta de J.M. Lapuente, calle de Noblejas, núm. 3, curato bajo. | [short rule] | 1871 [-1872].

2 vols. [VOL 1: 1871] 8°:  $\pi^8$  [\*]-\*\*\*\*\*4 28 22-338 342; 302 $\ell$ .; [i]-lxx, [2] blank, [1]-529, [1] blank, [1] errata, [1] blank p.; [VOL 2: 1872] 8°:  $\pi^8$  2-438 444; 348 $\ell$ .; [1]-693, [1] blank, [1] errata, [1] blank p.

CONTENTS: [Vol 1] [i-ii], Half title page, "Bibliografía Mineral | Hispano-Americana," verso blank.; [iii-iv], Title page, verso blank.; [v]-xvi, "Introducción."; [xvii]-lxx, "Índice | General De Materias Por Orden Alfabético."; [2 pgs], Blank.; [1]-529, Text, A to Ozoires de Ulloa.; [1 pg], Blank.; [1 pg], "Correcciones."; [1 pg], Blank.

[Vol 2] [1-2], Half title page, "Bibliografía Mineral | Hispano-Americana," verso blank.; [3-4], Title page, verso blank.; [5], "Advertencia."; [6], Blank.; [7]-688, Text.; [689]-693, "Lista De Señores Suscritores."; [1 pg], Blank.; [1 pg], "Correcciones."; [1 pg], Blank.

VERY SCARCE. Co-authored with Ramon Rua Figueroa [see note below]. This impressive biobibliography contains information on the literature of mineralogy, mining, geology and related subjects written in the Spanish language. Each entry provides biographical notes on the authors, and complete title information, together with complete pagination. Copious notes about the books listed are also included. This extraordinary work contains much information that could not easily be located elsewhere.

Facsimile reprint, 1970: Series title page: Vi Congreso Internacional De Minería | Departamento De Publicaciones | [rule] | La Minería Hispana | E | Iberoamericana | Contribución A Su Investigación Histórica | Estudios – Fuentes – Bibliografía | [ornament] | Vol. II [-III]. | Bibliografía | Catedra De San Isidoro | Leon | 1970.

2 vols. [Vol 1] 8°: [6], [i]-lxx, [2] blank, [1]-529, [1] blank, [1] errata, [1] blank p.; [Vol 2] 8°: [6], [1]-693, [1] blank, [1] errata, [1] blank p.

Photographic reprint of the original edition, published as volumes 2 and 3 of the series.

Ramon Rúa Figueroa. (BORN: Santiago de Compostela, Spain, c1820; DIED: 1874) *Spanish mining engineer & science historian*. Rúa Figueroa's brother Jose, doctor and journalist, was outstanding member of the liberal fight, ideology that had to share Ramon Rúa with greater moderation. Engineer of mines, their writings have importance by the critical information that they contain as far as the procedures of mining operation in many Spanish deposits, to which are united proposals for the improvement. In its publications official protectionism occurs to enhancement to the economic aspects, in matters such as to determined industries, that it deplores; thus, several of their works can be inserted in the controversy around the convenience of which the State is or nonproprietor of the mining operations. Rúa is opposite all state interventionism and attributes to this situation the pos-tracción that the extractive industries undergo. In collaboration with Eugene Maffei (v.), she was Rúa author of the work the Hispanic and Latin American mining, reviewed in the mentioned voice, fundamental repertoire for the historical investigation in the matter and other relatives by marriage.

REFERENCES: BL: [11926.r.4.]. • Calvo Rebollar, *Bibliografía Mineralogía Españolas*, 1999: p. 155-7. (Figueroa) López Piñero, *Diccionario Histórico*, 1983: 2, 268.

### 3185. — Spanish, 1877 [History].

Centenario | De La | Escuela De Minas | De | España | [rule] | 1777-1877 | [ornate rule] | Madrid | Imprenta Y Fundición De M. Tello | Impresor De Cámara De S.M. | Isabel la Católica, 23 | 1877. 4°: viii, 300 p.

RARE. This is a history of the first century of the Escuela de Minas (School of Mines) established in Madrid, Spain in 1777. This was the fourth mining school ever established, being preceded by the ones at Freiberg, Germany, Schemnitz, Hungary, and St. Petersburg, Russia. This book gives a detailed narration of the Spanish school's history, followed by a series of appendices listing students and professors, information on the organization of the school, and biographies and bibliographies of some of the more famous graduates.

Facsimile reprint, 1977: *Centenario de la Escuela de Minas de España, 1777-1877*. Edición Facsímil Escuela Técnica Superior de Ingenieros de Minas, Madrid, 1977. viii, 300, 28 p. [ISBN: 8460009106].

REFERENCES: BL: [7106.g.16.]. • Calvo Rebollar, *Bibliografía Mineralogía Españolas*, 1999: p. 169-70.

## MAGAZIN DER BERGBAUkunde.

### 3186. — German, 1785 [Periodical].

Magazin | der | Bergbaukunde, | Erster Theil. | [rule] | Mit Kupfern. | [Large, engraved scene.] | Dresden, 1785. | In der Waltherischen Hofbuchhandlung.

13 vols., 1785 to 1799. Edited by Johann Friedrich Lempe, this journal published papers mostly on mining and metallurgical technology. It also peripherally contains some information on mineralogy. RARE.



la Diminution de la Mer, la Formation | de la Terre, l'Origine de l'Homme, &c. | Mis en ordre sur les Mémoires de feu M. de Maillet. | Par J. A. G\*\*\* | Tome Premier. [-Second.] | [ornament] | A Amsterdam. | Chez L'honoré & Fils, Libraires. | [double rule] | M. DCC. XLVIII.

2 vols. [VOL 1] 8°: [12], [I]-CXIX, [1], [8], [1]-208 p. [VOL 2] 8°: [2], [1]-231, [5] p.

RARE. Posthumously published, this remarkable and evolutionary treatise was treated with skepticism by contemporary researchers, although its theories have largely been shown correct. Even when it was published, the controversy the ideas it contained were enough for the publisher to disguise the author's true name by encrypting it to read "Tallimed" (the reverse of Malliet). By using the device of an imaginary voyage to India by a French missionary, and by presenting the work's philosophy as the beliefs of an Indian mystic, Maillet sought to make palatable his pre-Darwinian theories of evolution. Malliet denied that God was not an omniscient overseer, states that the earth is more than two billion years in age, and believed in the possibility that life in the sea could be transformed into life on the land. He further concludes that such transformations happened not only in the distant past but is continuing to the present time.

The work was not published until ten years after de Maillet's death, and even then reluctantly, by his friend the Abu Le Marcia, who was also responsible for the work's dedication to Cyrano de Bergerac. Even though it was a posthumous publication, Le Mascrier still found it easier to attribute the work to an Indian philosopher by the name of Telliamed rather than give Malliet as the actual author, perhaps in an attempt to avoid controversy. It is thought that Diderot was heavily influenced by this work in his shift from deism to atheism, and Sabin comments that it was 'long supposed to have suggested to Mr. Darwin his celebrated theory'.

REFERENCES: Barbier: 4, p. 673. • BL: [990.a.16.17.]. • Geikie, *Founders of Geology*, 1905: p. 85-7. • LKG: XIII 68. • NUC. • Sabin, *Dictionary*, 1868-1936: no. 43891. • Sallander, *Bibliotheca Walleriana*, 1955: no. 19950. • Ward & Carozzi, *Geology Emerging*, 1984: no. 1457. • Zeitlinger & Sotheran, *Bibliotheca Chemico*, 1921-52: no. 4367.

**3189. 2nd edition, 1749:** Telliamed | Ou | Entretiens | D'Un Philosophe Indien | Avec Un Missionnaire François | Sur la Diminution de la Mer, la Formation | de la Terre, l'Origine de l'Homme, &c. | Mis en ordre sur les Mémoires de feu | M. de Maillet, | Par J. A. G\*\*\* | [ornament] | A Basle, | Chez les Libraires associés. | [double rule] | M. DCC. XLIX.

4°: [10], lxx, 407 p. VERY SCARCE.

**3190. 3rd edition, 1st imprint, 1755:** Telliamed | Ou | Entretiens | D'Un Philosophe Indien | Avec Un Missionnaire François | Sur la Diminution de la Mer, | Par M. De Maillet. | Nouvelle Édition, | Revue, corrigée & augmentée sur les | Originaux de l'Auteur, avec une Vie de | M. de Maillet. | Tome Premier. [-Second.] | [ornament] | A La Haye, | Chez Pierre Gosse, Junior. | [double rule] | M. DCC. LV.

2 vols. [VOL 1] 12°: [4], vii, [1], 23, [1], lxxviii, [4], 240 p. [VOL 2] 12°: [8], 360, [12] p. VERY SCARCE.

**Facsimile reprint, 1984:** Telliamed ou entretiens d'un philosophe indien avec un missionnaire français sur la diminution de la mer. Paris, Fayard, 1984.

REFERENCES: BL: [725.a.13.14.]. • Quérard, *France Littéraire*, 1964: 5, 442.

**3191. 3rd edition, 2nd imprint, 1755:** Telliamed | Ou | Entretiens | D'Un Philosophe Indien | Avec Un Missionnaire François | Sur la Diminution de la Mer, | Par M. De Maillet. | Nouvelle Édition, | Revue, corrigée & augmentée sur les | Originaux de l'Auteur, avec une Vie | de M. de Maillet. | Tome Premier. [-Second.] | [ornament] | A La Haye, | Et se trouve à Paris, | Chez Duchesne, Libraire, rue Saint Jacques, | au-dessous de la Fontaine Saint Benoît, | au Temple du Goût. | [double rule] | M. DCC. LV.

2 vols. [VOL 1] 12°: [4], vii, [1], 240 p. [VOL 2] 12°: [16], 360 p. PAGE SIZE: 165 x 908 mm. VERY SCARCE.

REFERENCES: Ward & Carozzi, *Geology Emerging*, 1984: no. 1459.

**3192. English transl., 1st imprint, 1750:** Telliamed: | Or, | Discourses | Between an | Indian Philosopher | And A | French Missionary, | On The | Diminution of the Sea, the For- | mation of the Earth, the Origin | of Men and Animals, | And other | Curious Subjects, relating to Natural | History and Philosophy. | [rule] | Being a Translation from the French Original of | Mr. Maillet, | Author of the Description of Egypt. | [rule] | London; | Printed for T. Osborne, in Cray's Inn. | MDCCCL.

8°: [i]-lii, [1]-284 p. PAGE SIZE: 202 x 115 mm.

VERY SCARCE. First translation of the original french edition of 1748 which anticipated to some extent the ideas of Darwin and Lyell and a forerunner of the uniformitarian geologists of the 19th century and he anticipated Lamarck.

REFERENCES: BL: [726.f.30.].

**3193. English transl., 2nd imprint, 1750:** Telliamed: | Or, | Discourses | Between an | Indian Philosopher | And A | French Missionary, | On The | Diminution of the Sea, the For- | mation of the Earth, the Origin | of Men and Animals, | And other | Curious Subjects, relating to Natural | History and Philosophy. | [rule] | Being a Translation from the French Original of | Mr. Maillet, | Author of the Description of Egypt. | [double rule] | London: | Printed for Jacob Loyseau, at the Bible, in St. Cle- | ment's, Churchyard. 1750.

8°: [i]-lii, [1]-284 p. VERY SCARCE.

**3194. American issue, 1797:** Telliamed; | or, the | World Explain'd: | containing | Discourses | between an | Indian Philosopher | and a | Missionary, | on the | Diminution Of The Sea— | the | Formation Of The Earth— | The | Origin of Men & Animals | and other | Singular Subjects, | relating to | Natural History & Philosophy. | [ornate rule] | —A Very Curious Work.— | [ornate rule] | Baltimore: | Printed by W. Pechin, No. 15, Market-street— | for D. Porter, at the Observatory, | Federal-Hill, | 1797.

8°: xxix, 268 p.

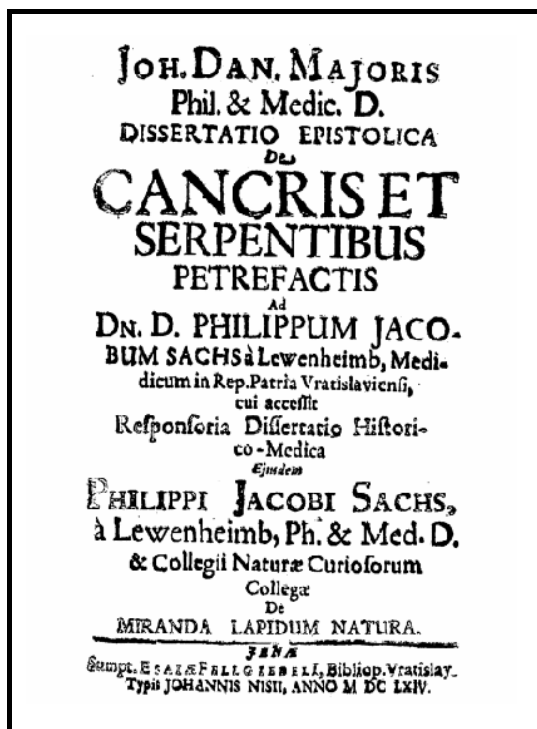
VERY SCARCE. First and rare original American edition of this curious work of the paradoxical philosopher and French Consul in Egypt, Benoît de Maillet.

REFERENCES: Evans, *American Bibliography*: no. 32414. • Sabin, *Dictionary*, 1868-1936: no. ???. • Zeitlinger & Sotheran, *Bibliotheca Chemico*, 1921-52: no. 11298.

**MAJOR, Johann Daniel.** (BORN: Breslau, Germany, 16 August 1634; DIED: Stockholm, Sweden, 3 August 1693) *German physician.*

Major studied medicine at Wittenberg and Leipzig, receiving his M.D. from Padua in 1660. For a period, Major had a medical practice in Hamburg, then in 1665 he was appointed Professor of Medicine at the recently founded Academy in Kiel. He held membership in the Lepoldinia Academy and died while attending the ailing Queen of Sweden.





DISSERTATIO EPISTOLICA, 1664

REFERENCES: ADB: 20, 112. • Poggendorff: 2, cols. 20-1.

**3195. — Latin, 1664 [Dissertation].**

Joh. Dan. Majoris | Phil. & Medic. D. | Dissertatio Epistolica | De | Cancris Et | Serpentibus | Petrefactis | Ad | Dn. D. Philippum Jacobum Sachs à Lewenheim, Medicum in Rep. Patria Vratislaviensi, | cui accessit | Responsoria Differtatio Historico-Medica | Ejusdem | Philippi Jacobi Sachs, | à Lewenheim, Ph. & Med. D. | & Collegii Naturæ Curiosorum | Collegæ | De | Miranda Lapidum Natura. | [rule] | Jenæ | Sumpt. Esaiæ Fellgiebeli, Bibliop. Vratislay | Typis Johannis Nisii, Anno M DC LXIV.

8°: 110, [2] p. Title in red and black.

RARE. Major "published a dissertation on petrified crabs and snakes in the form of an epistle, to which Philipp Jakob Sachs von Löwenhaimb [1627-1672] replied in the same year with another on the marvelous nature of stones. The finding of a snake of stone in the stomach of a stag caused Major to wonder why only the snake was petrified and no portion of the stag, and to declare that human life hardly suffices to explore even a tenth part of the portents which are of daily occurrence."—Thorndike

REFERENCES: BL: [987.b.7.]. • CBN: 104, col. 186. • Cobres, *Deliciæ Cobresianæ*, 1782: 729, 3. • Gatterer, *Mineralogischen Literatur*, 1798-9: 2, 7. • Katalog Bergakademie Freiberg, 1879: p. 431. • LKG: XVII 104.

• NLM 17th Century Books (Krivatsy): no. 7929. • Thorndike, *History of Magic*, 1923-58: 8, 33. • VD17: 23:295685L. • Zittel, *Geschichte der Geologie*, 1899: p. 22.

**3196. — Latin, 1667 [Dissertation].**

Dissertatio Medica | De | Lacte Lunæ, | quam d. 16. Novembr. 1667. boris ab 8. matut. | In Auditorio majori habendam intimant | Præses | Joh. Daniel Major, Ph. & M.D. | Anat. & Botan. Prof. P. Rev<sup>mi</sup> & Sci<sup>mi</sup> Episcopi | Lubecensis Archiater, | & Respondens | Joh. Andreas Sennertus, | VVittebergensis. | [rule] | Kiloni, | Typis Joach. Reumanni, Acad. Typogr.

4°: 45ℓ.

VERY RARE. Dissertation defended by Johann Andreas Sennert [ ] at the University of Wittenberg on 16 November 1667. It appears this dissertation describes the properties of moonstone??

REFERENCES: BL: [1185.b.1.(8.)]. • LKG: XVI 122. • VD17: 1:046609X.



KUNST- UND NATURALIEN-KAMMERN, c1674

**Naturalien-Kammern**

**3197. — German, c1674.**

JDMBMD | Unvorgreiffliches Bedencken | von | Kunst= und Natura= | lien=Kammern | ins gemein. | [ornament] | [rule] | Kiel/ | Gedruckt durch Joachim Reuman/ Acad. Buchdr.

2°: A-E4; 20ℓ.; [40] p. The six initials at the beginning of the title are intertwined. The first three initials stand for Johann Daniel Major.

CONTENTS: A1r, Title page.; A1v-A2v, Dedication.; A3r-E4v, Text.

VERY RARE. In this work, Major gives lists of art and natural history museums in various parts of the world, and particular descriptions of several of these. This work was reprinted in Valentini's *Museum Museorum* (Francofurti, 1704; v1, p. 55ff).

REFERENCES: Murray, *Museums*, 1904: 3, 9. • VD17: 1:090814S.

### 3198. — German, c1674.

JDMBMD | Vorstellung etlicher | Kunst= und Natura= | lien=Kammern/ | in America und Asia. | [ornament] | [rule] | Kiel/ | Gedruckt durch Joachim Reuman/ Acad. Buchdr.

2°: A-C4; 12ℓ.; [24] p. The six initials at the beginning of the title are intertwined. The first three initials stand for Johann Daniel Major.

CONTENTS: A1r, Title page.; A1v-A2v, Dedication.; A3r-C4v, Text.

VERY RARE. Major provides descriptions and lists of various art and natural history collections in America and Asia. The dedication is dated Kiel, 15 November 1674. There are included chapters on the Incas in Peru, and on Montezuma in Mexico.

REFERENCES: Baginsky, *German Works Relating to America*, 1942. • *Deutsches Anonymen-Lexicon*, 1906: 4, 11187. • Palmer, *German Works on America*, 1952: no. 356. • Sabin, *Dictionary*, 1868-1936: no. 44067. • VD17: 7:631036Z.

### 3199. — German, c1674.

JDMBMD | Vorstellung etlicher | Kunst= und Natura= | lien=Kammern/ | in Africa/ und an Gräntzen | Europæ. | [ornament] | [rule] | Kiel/ | Gedruckt durch Joachim Reuman/ Acad. Buchdr.

2°: A-D4; 16ℓ.; [32] p. The six initials at the beginning of the title are intertwined. The first three initials stand for Johann Daniel Major.

CONTENTS: A1r, Title page.; A1v-A2v, Dedication.; A3r-D4v, Text.

VERY RARE. Major provides descriptions and lists of various art and natural history collections in Africa and most of Europe. The dedication is dated Kiel, 31 December 1674.

REFERENCES: VD17: 1:090821A.

### 3200. — German, c1675.

JDMBMD | Vorstellung etlicher | Kunst= und Natura= | lien=Kammern/ | in Italien | Zu Neapolis und Alt=Rom. | [ornament] | [rule] | Kiel/ | Gedruckt durch Joachim Reuman/ Acad. Buchdr.

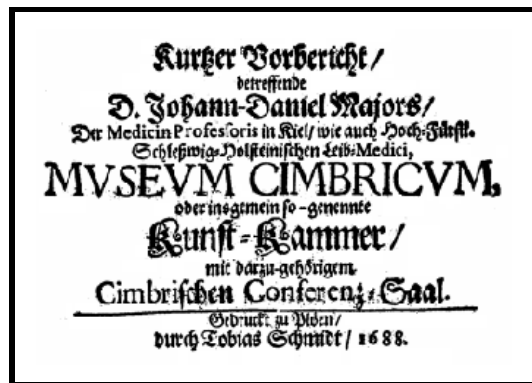
2°: A-C4; 12ℓ.; [24] p. The six initials at the beginning of the title are intertwined. The first three initials stand for Johann Daniel Major.

CONTENTS: A1r, Title page.; A1v-A2v, Dedication.; A3r-C4v, Text.

VERY RARE. Major provides descriptions and lists of various art and natural history collections in Italy,

and particularly the city of Naples and ancient Rome. The dedication is dated Kiel, 19 July 1675.

REFERENCES: VD17: 1:090816G.



MUSEVM CIMBRICVM, 1688

### 3201. — German, 1688 [Collection catalog?].

Kurtzer Vorbericht/ | betreffende | D. Johann-Daniel Majors/ | [...2 lines of titles and memberships...] | Mvsevm Cimbricvm, | oder insgemein so-genennte | Kunst=Kammer/ | mit darzu-gehörigem | Cimbrischen Conferenç=Saal. | [rule] | Gedruckt zu Plöen/ | durch Tobias Schmidt/ 1688.

4°: A-F4 G3; 27ℓ.; [1]-54 p. VERY RARE.

CONTENTS: [1-2], Title page, verso blank.; 3-54, Text.

Reprinted in: Steckner, Cornelius, *Museum Cimbricum. Aspekte des öffentlichen Museumswesens in Schleswig-Holstein, 1689-1989*. [Vorgelegt von der Arbeitsgruppe Museum Cimbricum in Verbindung mit der Landesbibliothek. Hervorgegangen aus dem Seminar Museumspädagogik des Pädagogischen Institutes der Christian-Albrechts-Universität Kiel]. Kiel, 1989, 238 p., illus.

REFERENCES: BL: [no copy listed]. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 258. • Kirschner, S., "Vom privaten Naturalienkabinett zur öffentlichen Schausammlung: Johann Daniel Majors 'Museum Cimbricum' (1689)," in: Wolf Schmidt, G., ed., *Popularisierung der Naturwissenschaften*. München, 2002. • Steckner, C., *Museum Cimbricum Aspekte des öffentlichen Museumswesens in Schleswig-Holstein 1689-1989*. Selbstverlag, 1989. 238 p. • VD17: 3:302797X.

### 3202. — Latin, 1689 [Latin transl.].

Mvsei Cimbrici | cum | contentis in eo Rebus selectioribus, | privatim declarandi | Aditus I. | quem | D. 26. Junii, Horis ante-ac pomerid: | Sub certâ Conditione | concedendum, | æquis talium Æstimatioribus | intimat | Ioh. Daniel Maior, | Phil. & Med. D. hujusq; Prof. P. | [rule] | Kilie Holsatorum, | Imprimeb. Joach. Reumann, Acad. Typogr. | 1689.

[TITLE OF PART 2 READS:]

Mvsei Cimbrici | cum | contentis in eo Rebus selectioribus, | privatim declarandi | Aditus II. | quem | D. 27. Julii, Horis ante-ac pomerid: | Sub

## MALAISE

certâ Conditione | concedendum, | æquis talium  
Æstimatōribus | intimat | Ioh. Daniel Maior, |  
Phil. & Med. D. hujusq; Prof. P. | [rule] | Kilie  
Holsatorum, | Imprimeb. Joach. Reumann, Acad.  
Typogr. | 1689.

2 parts. [Part 1] 4°: A4 B2; 6ℓ.; [12] p. [Part 2]  
4°: A4; 4ℓ.; [8] p.

CONTENTS: [Part 1] [1 pg], Title page.; [11 pgs], Text.  
[Part 2] [2 pgs], Title page, verso blank.; [6 pgs],  
Text.

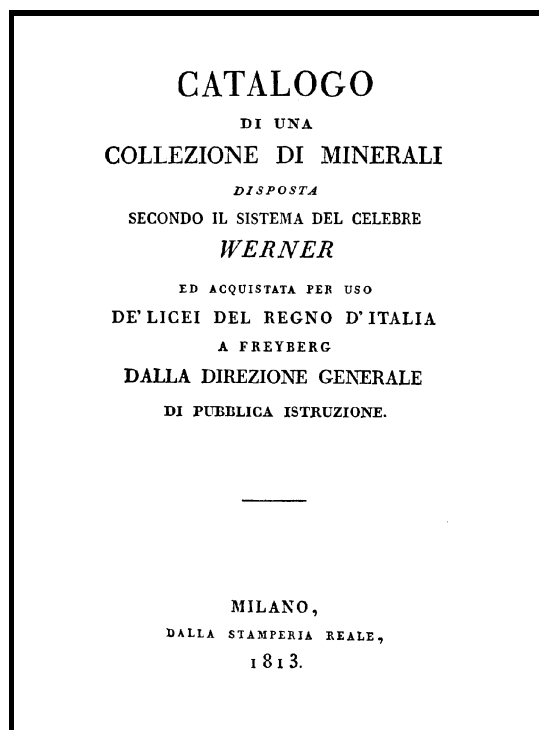
VERY RARE. Latin translation of *Mvsei Cimbrici*  
published in two parts and presented on 26 June 1689  
and 27 July 1689, respectively.

REFERENCES: BL: [no copy listed]. • Gatterer,  
*Mineralogischen Literatur*, 1798-9: 1, 258. • VD17:  
3:302801Y.

### MALACARNE, Claro Giuseppe. *Italian physician.*

Malacarne was a professor of surgery at the  
University of Padua. He was also a member of the Jena  
Mineralogical Society.

REFERENCES: Schwabe, *Historische Nachricht*, 1801.



CATALOGO, 1813

### 3203. — Italian, 1813.

Catalogo | Di Una | Collezione Di Minerali |  
Disposta | Secondo Il Sistema Del Celebre | Werner  
| Ed Acquistata Per Uso | De' Licei Del Regno  
D'Italia | A Freyberg | Dalla Direzione Generale  
| Di Pubblica Istruzione. | [rule] | Milano, | Dalla  
Stamperia Reale, 1813.

8°: [a]-d<sup>8</sup> 1-19<sup>8</sup> 20<sup>6</sup>; 190ℓ.; [i]-lxiv, [1]-316 p.,  
indexes. PAGE SIZE: 222 x 145 mm.

CONTENTS: [i-ii], Half title page, "Catalogo | Di  
Una | Collezione," verso blank.; [iii-iv], Title page, verso  
blank.; [v]-[viii], "Avverimento."; [ix]-xxiv, "Caratteri  
Mineralogici. | ..."; [xxv]-lxiv, "Distribuzione Metodica |  
De' Minerali."; [1]-180, Text.; [181]-281, "Indice Alfabetico  
| Delle Sinonimie."; [282]-316, "Etimologia Alfabetica |  
..."

RARE. This catalog, attributed to C.G.  
Malacarne by Partsch, describes a mineral collection  
purchased by the Italian government from the Freiberg  
Berakademie. It was intended that this acquisition  
would be used to instruct students in mineralogy, and  
this book is in part a product of that goal. The  
volume begins with a long introduction describing  
the criteria used to identify various species and  
stressing the importance of chemistry and crystal  
structure in mineral determination. A review of  
the classification systems of Werner and Haüy is  
then given, after which the catalog is presented. It  
is arranged according to the second mineralogical  
system of ABRAHAM GOTTLÖB WERNER, as outlined in  
*Beschreibung einer auserlesenen Mineraliensammlung*  
(Dresden, 1807). Each of the 462 mineral specimens  
listed is carefully portrayed with references to  
synonyms, localities, physical and chemical qualities  
and crystallography. Indexes listing mineralogical  
synonyms and an alphabetical list of the described  
minerals conclude the work.

REFERENCES: BL: [no copy listed]. • Freiesleben,  
*Sächsische Mineralien-Verzeichnisse*, 1828: no. 66. • *Freilich  
Sale Catalog*: no. 556. • Partsch, *Katalog der Bibliothek*,  
1851: no. 475 [attributes authorship to C.G. Malacarne].  
• Vaccari, *Mineralogy and Mining in Italy*, 1998. • Ward &  
Carozzi, *Geology Emerging*, 1984: no. 1179.

### MALAISE, Constantin Henri Gérard Louis. (BORN: Liège, Belgium, 7 November 1834; DIED: 1916) *Belgian naturalist.*

Malaise was a professor of natural history at  
Gembloux. He studied stratigraphy and invertebrate  
paleontology of the Paleozoic epoch.

REFERENCES: BAB: 186, 148-152. • Fourmarier, P.,  
"Notice sur Constantin Malaise," *Annual. Acad. r. Belg.*,  
1931, p. 97-164, portrait. Also published separately,  
*Notice sur Constantin Malaise*. Bruxelles, M. Hayez, 1931.  
73 p., portrait.]. • Le Roy, A., *Liber memorialis: l'Université  
de Liège depuis sa formation*. Liège, 1869, pp. 425-8. •  
Poggendorff: 3, 859-60. • Sarjeant, *Geologists*, 1980: 3, 1639.  
• WBI.

### 3204. — French, 1873 [First edition].

Manuel de Minéralogie Pratique ... Mons, Brux-  
elles, H. Manceaux, 1873.

12°: vi, [2], 332 p., folding table, diagrams.

VERY SCARCE. In this *Manual of Practical  
Mineralogy* the introductory material is divided into  
three parts: 1. General properties of minerals, 2.  
Chemical properties of minerals, and 3. Descriptive  
mineralogy. This is then followed by a systematic  
mineralogy based on Dana's classification. Apparently,  
a popular work, with the final, fourth edition being  
published in 1913.

REFERENCES: BL: [no copy listed]. • NUC.

**3205. 2nd edition, 1881:** Manuel de Minéralogie Pratique, par C. Malaise ... Ouvrage couronné ... par la Société des sciences, des arts et des lettres du Hainaut, au concours de 1869. Deuxième édition ... Mons, H. Manceaux, 1881.

12°: iv, 394 p., illus. VERY SCARCE.  
REFERENCES: BL: [no copy listed].

**3206. 3rd edition, 1893:** Manuel de Minéralogie Pratique ... Troisième Édition ... augmentée. Bruxelles, 1893.

12°: iii, 465 p., illus. VERY SCARCE.

REFERENCES: BL: [07109.i.2.].

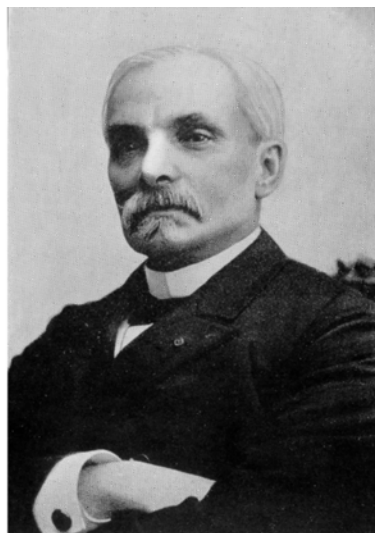
**3207. 4th edition, 1913:** Manuel | De | Minéralogie Pratique | Par | C. Malaise | [...8 lines of titles and memberships...] | [rule] | Ouvrage couronné (Médaille d'or) par la Société des Sciences, des Arts & des | Letters du Hainaut, au concours de 1869. | [rule] | Quatrième Édition | Revue Et Considérablement Augmentée | Avec En Annexe La Liste Des Espèces Rencontrées | Au Congo Belge | [rule] | Bruxelles | A. Manceaux, Libraire-Éditeur | 33, Rue d'Italie, 33 | 1913.

12°: [4], I-VIII, [1]-603, [1] p., 141 illus., folding table (p. 72). PAGE SIZE: 188 x 120 mm.

CONTENTS: [2 pgs], Half title page, "Manuel | De | Minéralogie Pratique," verso "Tous les exemplaire soont revêtus de la signature de l'auteur.;" [2 pgs], Title page, verso blank.; [1]-V, "Préface."—dated 1913.; [VI]-VIII, "Errata.;" [1]-510, Text.; 511-550, "Appendice.;" [551]-561, "Table Analytique Des Matières.;" [562]-574, "Table Alphabétique Des Espèces.;" [575]-595, "Annexe. | [rule] | Espèces Minérales | Du | Congo Belge | [rule] | C. Malaise.;" [596]-597, "Table Analytique | Des Espèces Minérales Du Congo Belge.;" [598]-600, "Table Alphabétique.;" [601]-602, "Addenda.;" 603, "Errata.;" [1 pg], Blank.

VERY SCARCE. Malaise has included in an appendix a list of mineral species found in the Belgium Congo.

REFERENCES: BL. • NUC.



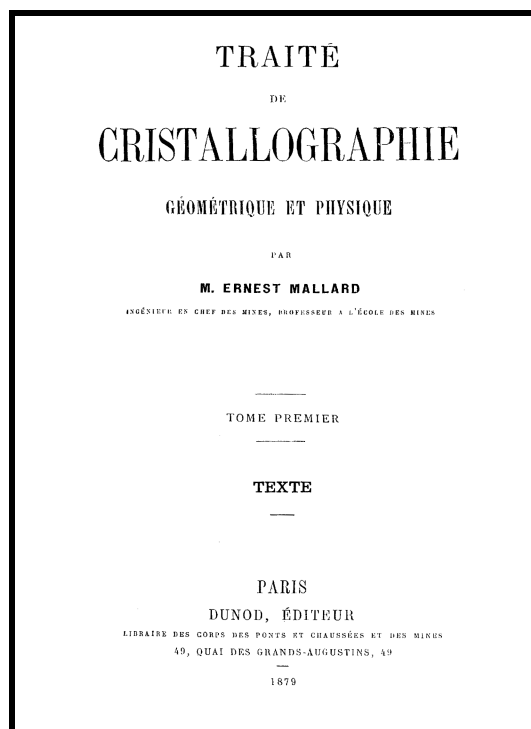
MALLARD

**MALLARD, François Ernest.** (BORN: Chateauf-neuf-sur-Cher, France, 4 February 1833; DIED: Paris, France, 6 July 1894) *French mineralogist & mine engineer.*

From 1872 to 1894, Mallard was professor of mineralogy at the École des Mines in Paris. In 1890, he was elected to the Académie des Sciences in Paris. Mallard researched crystallography and isomorphism. His investigations into gas and mine explosions helped provide

safer conditions for miners. He participated in the geological mapping of France.

REFERENCES: AFB: I 695, 338-339. • *Annales des Mines*: 9th series, 7 (1895), 267-303 [by A. de Lapparent]. • Barr, *Index to Biographical Fragments*, 1973: 166. • *Bulletin de la Société Française de Minéralogie*: 7 (1894), 241-66, portrait [by G. Wyruboff]. • *Bulletin de la Société Géologique de France*: 23 (1895), 179-91. • DSB: 9, 58-60 [by W.T. Hosler]. • Lacroix, *Figures des Savants*, 1932-8: 1, 69-79, plates 13-14. • Lambrecht & Quenstedt, *Catalogus*, 1938: 277. • *Mémoire Académie Sci. Institute Français*: 60 (1931), p. I-LXXVI [by A. Lacroix]. • *Mineralogical Magazine*: 7 (1887), no. 48, 328-30 [by G. Wyruboff]. • Poggendorff: 3, 1641 & 4, 948. • Sarjeant, *Geologists*, 1980: 3, 1641. • WBI. • *World Who's Who in Science*: 1100.



TRAITÉ DE CRISTALLOGRAPHIE, 1879

**3208. — French, 1879-84** [First edition].

Traité | De | Cristallographie | Géométrie Et Physique | Par | M. Ernest Mallard | Ingénieur en chef des mines, professeur à l'École des mines | [short rule] | Tome Premier | [short rule] | Atlas | [short rule] | Paris | Dunod, Éditeur | Libraire Des Corps Des Ponts Et Chaussées Et Des Mines | Quai Des Augustins, N° 42 | [short rule] | 1879.

[VOL 1: 1879] 8°: [4], [i]-vi, [1]-372 p. [VOL 2: 1884] 8°: [i]-vi, [1]-599, [1] p., 8 chromolithographic plates. [Atlas] 4°: ?? p.

CONTENTS: [Vol 1] [2 pgs], Half title page, "Traité | De | Cristallographie," verso "...Typographie A. Lahure...;" [2 pgs], Title page, verso blank.; [i]-vi, "Préface.;" [1]-363, Text.; [364], Blank.; [365]-366, "Explication Des Planches.;" [367]-370, "Table Des Matières.;" [371]-372,

## MALTE-BRUN

"Errata."

[Vol 2] [i-ii], Half title page, "Traité | De | Cristallographie," verso "...Typographie A. Lahure..."; [iii-iv], Title page, verso blank.; [v-vi], "Préface | Du Second Volume.;" [1]-587, Text.; [588], Blank.; [589]-599, "Table Des Matières.;" [1 pg], "Errata Du Premier Volume.;" [At end], 8 chromolithographic plates.

RARE. In his *Traité de Cristallographie* Mallard presents the subject with clarity, and describes the geometrical and physical properties of crystals and proposes a classification system. Taking as his starting point the researches of AUGUSTE BRAVAIS, Mallard studied those crystals that appeared to have greater symmetry than their optical properties would indicate and which the important new polarizing microscope showed the importance of twinning in these "crystalline edifices." He introduced the concept of a pseudosymmetry as an explanation of such crystals. He summarized his ideas in the *Traité de Cristallographie* that began to appear in 1879. The first volume described geometrical crystallography, lattice theory, and crystal morphology. In 1884 the second volume was published and it described crystal physics. In this work, for the first time, the difficult mathematical concepts introduced by Bravais to lattice theory were reduced to a comfortable and understandable clarity for nonspecialists. Unfortunately, a planned third volume that was to cover isomorphism, polymorphism, twinning, pseudosymmetry, and crystal growth, was never completed, although individual articles especially with respect to twins were published separately. In all his work, Mallard developed and extended Bravais' lattice theory, especially with respect to the importance of crystal faces and twins.

REFERENCES: BL: [no copy listed]. • Dana's 7th (Bibliography): 76. • Groth, *Entwicklungsgeschichte*, 1926: 112, 117 & 181-2.

**MALTE-BRUN, Conrad.** (BORN: Jutland, Denmark, 12 August 1775; DIED: Paris, France, 14 December 1826) *Danish geographer.*

Malte-Brun was a Danish geographer who later settled in Paris. He was originally named Malthe Konrad Bruun. He wrote extensively on geography and he is credited for the descriptive, readable style that became characteristic of the French school of geography, which was carried on by his son, Victor Adolphe Malte-Brun [1816-1889], who also wrote extensively on geographical subjects.

REFERENCES: ABF: I 696, 450-457. • *Biographie Universelle*. • *Dansk Biografisk Haandleksikon*: ??, ??, • *Dansk Biografisk Lexikon*: ??, ??, • *Nouvelle Biographie Générale* (Hoefel). • Poggendorff: 1, col. 323 [under Bruun]. • WBI.

### 3209. — French, 1807.

Tableau | De La Pologne | Ancienne Et Moderne. | Contenant | La description de ce pays, de ses montagnes, plaines, fleuves, | marais, climat, animaux, végétaux et minéraux; | la topographie de la Haute et Basse Pologne, de la Prusse, la Courlande, | la Lithuanie, la Russie-Blanche, Noire et Rouge, la Wolhynie et l'Ukraine; | avec indication des villes, bourgs, édifices et monumens; | la description politique ou aperçu de

la constitution polonaise, des | religions, des lois, de l'administration civile et judiciaire, des moeurs, | de l'armée, de la population et des revenus ; des systèmes des poids, | mesures et monnaies en usage, soit en Pologne, soit à Dantzick; | un précis de l'histoire de la Pologne, depuis les temps les plus an- | ciens jusqu'à nos jours, des recherches sur l'origine des Slavons et des | Sarmates, et des détails sur les restes de la langue sarmatique. | Rédigé principalement d'après des notes communiquées | par des Polonais et d'après les auteurs du pays même. | Par Malte Brun. | Pour servir de complément à l'Histoire de la | Pologne par M. de Rulhieres. | Paris, | Chez Henri Tardieu, librairie, Passage des Panoramas n°. 12. | A la Librairie stereotype, chez H. Nicolle et Comp., rue | des petits Augustins, n°. 15. | 1807.

8°:  $\pi^6$  1-31<sup>8</sup> 322; 256 $\ell$ .; [i]-xii, [1]-498, [2] p. PAGE SIZE: 192 x 120 mm.

CONTENTS: [i-ii], Half title page, "Tableau | De La Pologne," verso blank.; [iii-iv], Title page, verso blank.; [v]-x, "Avant-Propos.;" xi-xii, "Note sur l'orthographe et la prononciation | des noms polonais.;" [1]-488, Text.; [489]-498, "Table Analytique | Des Matières.;" [2 pgs], "Errata."

RARE. With in this well referenced general geographical description of Poland are an account of its mountains, plains, rivers, marshes, climate, animals, plants and minerals. It includes accounts of the topography of high and low Poland, Prussia, Courlande, Lithuania, Russia and the Ukraine, with indications of the cities, boroughs, buildings and monuments. The book includes at the beginning a description of orthography and pronunciation in Polish as well as a history of the countries early literature. It was written to complement a lengthy general history of Poland authored by Claude Carloman de Rulhière titled, *Histoire de la Pologne* (4 vols., Paris, 1807).

REFERENCES: BL. • Møller, Per Stig, *La critique dramatique et littéraire de Malte-Brun*. København, Munksgaard, 1971. 55, 676 p. [ISBN 8716007158]: ??.

### 3210. — French, 1811.

Tableau methodique de tous les genres des productions naturelles qui se trouvent en France, par M. de Brun des Beunes. Paris, 1811.

8°: RARE.

REFERENCES: LKG: XIV 344. • Møller, Per Stig, *La critique dramatique et littéraire de Malte-Brun*. København, Munksgaard, 1971. 55, 676 p. [ISBN 8716007158].

### 3211. — French, 1812-29.

Precis de la géographie universelle, ou description de toutes les parties de monde, sur un Plan nouveau d'après les grandes divisions naturelles du globe etc. Paris, 1812-29.

8 vols. With an atlas of 24 geologic maps. RARE.

REFERENCES: BL. • LKG: XIII 242. • Møller, Per Stig, *La critique dramatique et littéraire de Malte-Brun*.



MALUS

København, Munksgaard, 1971. 55, 676 p. [ISBN 8716007158].

**MALUS, Étienne Louis.** (BORN: Paris, France, 23 June 1775; DIED: Paris, France, 23 February 1812) *French physician.*

Malus was a major of the engineers corp that served under Napoleon in his expedition to Egypt and Syria. He was among the first students to receive a scientific education at the École Polytechnique where he was first introduced to optics. He later taught at the École.

REFERENCES: ABE: I 697, 22-34. • Beauchamp, *Biographie Moderne*, 1816. • DSB: 9, 72-4. • Feller, *Biographie Universelle*, 1851. • *Nouvelle Biographie Générale* (Hoefer). • Poggendorff: 2, col. 30. • Schaedler, *Biographisch Handwörterbuch*, 1891: 76. • WBI.

### 3212. — French, 1810.

Théorie | De | La Double Réfraction | De La Lumière | Dans Les Substances Cristallisées, | Mémoire couronné par l'Institut, dans la séance publique | du 2 janvier 1810, | Pare E.L. Malus, | Lieutenant-Colonel Au Corps Impérial Du Génie, Membre De L'Institut D'Égypte. | [wavy rule] | Paris. | Garnery, Libraire, Rue De Seine, Hotel Mirabeau. | [rule] | Baudouin, Imprimeur De L'Institut De France. | [rule] | M. DCCC. X.

4°: [1]-302 p., 3 folding plates (showing diagrams).

SCARCE. Enlarged, first edition in book form of a prize winning essay originally published in the *Mémoires de Physique et de Chimie de la Société d'Arcueil*. In it Malus mathematically describes his discovery of polarization by reflexion, which was a significant event in discovering the optical properties of crystal substances.

First edition of this important memoir which contains the author's discovery of polarization of light by reflection. On 4 January 1808, the French Institute "proposed a prize which required an experimental and theoretical explanation of double refraction. The French 'Newtonian' scientists hoped that Malus would find a precise and general law for double refraction

# THÉORIE

DE

## LA DOUBLE RÉFRACTION

DE LA LUMIÈRE

DANS LES

### SUBSTANCES CRISTALLISÉES,

Mémoire couronné par l'Institut, dans la séance publique  
du 2 janvier 1810,

PAR E. L. MALUS,

LIEUTENANT-COLONEL AU CORPS IMPÉRIAL DU GÉNIE, MEMBRE DE L'INSTITUT D'ÉGYPTÉ.

PARIS.

GARNERY, LIBRAIRE, RUE DE SEINE, HOTEL MIRABEAU.

BAUDOUIN, IMPRIMEUR DE L'INSTITUT DE FRANCE.

M. DCCC. X.

THÉORIE, 1810

within the framework of an emission theory of light. Malus was a skilled mathematician and during 1807 he had carried out experiments on double refraction. By December 1808 Malus had finished his experimental investigations, which verified the Huygenian law. What remained was a theoretical deduction of the law. In January 1809, Laplace published a memoir in which he deduced Huygens' law within the framework of Newtonian mechanics, using the principle of least action, and Malus considered this an insolence which deprived him of the priority. In 1810 Malus won the prize for his 'Théorie de la double réfraction,' published in 1811 [sic]. Here he deduced the law following the same method as Laplace, by means of the principle of least action. Malus won the prize therefore mainly because of his original experimental researches and his discussion of the short-range forces that produce double refraction. Also of great importance was his law for the relative intensities of the ordinary and extraordinary rays." D.S.B., IX, p. 73.

REFERENCES: BL: [536.i.21.]. • Burke, *Origins of the Science of Crystals*, 1966: 141-2. • DSB: 9, 73. • LKG: X 8. • Mach, *Principles of Physical Optics*, 1926: 190-4.

### MALUS, Jean de.

### 3213. — French, 1632.

Avis des Riches mines d'Or et d'Argent et de toutes les Espèces des Metaux et Minéraux des Monts Pyrenees. [Paris, 1632.]

4°: 24 p.

## MANDEVILLE

**EXTREMELY RARE.** This book gives opinions on species of metals and minerals found in the rich mines of the Pyrénées mountains. Descriptions include gold, silver, copper, etc. The work is known only from its inclusion in mining and mineralogical anthologies published in the eighteenth century. The only copy of the original edition traced is held by the National Library of France.

**Another edition:** *Avis des riches mines d'Or et d'Argent, &c. des Monts Pyrenées.* Contained in A.A. Barba's *Metallurgie*, 2 (1751), which see.

**Another edition:** Nicolaus Gobet, *Les anciens minéralogistes du royaume de France* (Paris, 1779), 1.

**Related work:** *Recherche et découverte des mines des montagnes Pyrénées faite en l'an mille six cents par Jean de Malus et rédigée par Jean Du Puy.* Présentation d'Alain Bourneton. Milan, 1990. [11]-110 p., portrait. [Reprints a work on mining in the Pyrénées published in 1601; ISBN: 2-86726-607-6.]

REFERENCES: BL: [233.b.35.]. • LKG: XIV 385.

**MANDEVILLE, John.** (BORN: c1300; DIED: 1372) *Dutch explorer & author.*

Mandeville, which was probably a pseudonym, was the author of the book generally known as *Travels of Sir John Mandeville*, written in Norman French between 1357 and 1371. Virtually nothing is known of Mandeville. Much of the book was borrowed from narratives written by several world travelers and compiled into an entertaining first-person narrative, a compendium of medieval knowledge and speculation concerning such places as Jerusalem, India, and China.

REFERENCES: *Biografisch Woordenboek België.* • DNB. • *Encyclopaedia Britannica*, 11th edition. • *Nouvelle Biographie Générale* (Hoefer). • Sinkankas, *Gemology Bibliography*, 1993: 2, 660.

**3214. — French, c1495** [First edition].

[Within a frame of two woodcuts on the top and right:]

¶ Le lapidaire en francoys coittpose par | messire Jehan de mandeuille cheualier. | [Woodcut device].

4<sup>o</sup>: a-c<sup>6</sup>; 18<sup>l.</sup>, \$i - \$iij; no catchwords; 32 or 33 lines to the page. Presumed imprint: Lyon, Printer of Bernardus de Gordonio, Liliu Mediale, [c1495]. PAGE SIZE: 165 x 92 mm.

CONTENTS: alr, "[in a 2-piece frame (top and right):] ¶ Le lapidaire en francoys compose par | messire Jehan de mandeuille cheualier. | [device]."; alv, "[within a 3-piece frame (top left and bottom):] [woodcut, 64x64 mm., of a man writing at a table, Claudin, iv, 39]"; a2r, "[A5]Louneur [sic] et a la gloire de la sainte trinite. | ¶ A la requeste de treshault et puissant hom | me Regnier de son viuant roy de cecille et de | Iherusalem. ..."; on c6r, "in te viuit et regnat deus per omnia secula seculorum. Ame[n] | [blank line] | ¶ Deo gratias."; c6v, blank.

**EXTREMELY RARE.** Editio Princeps. Attributed to Mandeville this lapidary written in the French language first appeared in manuscripts that date from the middle 14th century. Pannier (1882) describes and compares several such manuscripts that had come under his inspection, and concludes that the text was probably not an authentic work of Mandeville. Instead, Pannier believes it to be the work of an unnamed jeweler.

The text describes the most important precious stones and many others of a fantastic nature. It begins by coping from MARBODE, the leading lapidary of the period, descriptions of about two dozen stones. Then



LE LAPIDAIRE EN FRANCOYS, c1495

are given descriptions of other stones and minerals both imaginary and real including pumice, mica, alabaster, and lapis lazuli. Stones formed in the human body or the bodies of animals are very prominent, as these bezoar and eaglestones were believed to bestow on their owner marvelous or supernatural power.

Due to the extreme rarity of all of the early editions the printing history of this work is a difficult bibliographical problem. The widely unknown incunabula edition described above was first noticed and examined in detail by David J. Shaw, whose information is copied (person communication). This is most probably the first printing of Mandeville's *Lapidaire*, although Klebs (1938) who copies Claudin (1900) briefly describes a tantalizing *Lapidaire* written in French and published at Lyon in 1477 that is perhaps a still earlier printing. The difficult to read manuscript description of this 1477 book published in Pellechet (1970) does not mention Mandeville's name, but the work deserves closer examination.

**English translation, c1999:** Contained in Bruce G. Knuth's *Gems in Myth, Legend, and Lore*, New York, Jewelers Press, c1999, 310 p., illus. [ISBN 0-9643550-1-9]. In addition to the translation of Mandeville, this reference also includes the gemological characteristics of each stone and hundreds of quotations regarding precious stones from classic pieces of literature.

REFERENCES: BL: [C.27.f.2.]. • Goose, A., "Jean d'Outremeuse et Jean de Mandeville," in: *Festschrift Walther von Wartburg zum 80. Geburtstag*. Tübingen, 1968, 1, 235-50. • (Lyon, 1477) Claudin, *Histoire de l'Imprimerie*, 1900-15:

3, 49. • Klebs, *Incunabula Scientifica*, 1938: no. 588.1 [lists copies at Marseille, München and the Bibliotheca Nationale, Paris]. • Pellechet, *Catalogue General des Incunables*, 1970: 9, p. 6996, no. 7042 [attributes it to Lugduni, Guilelanus Le Roy, n.d.]. • Mourin, L., "Les lapidaires attribués à Jean de Mandeville et à Jean à la Barbe," *Romanica Gandensia*, 4 (1955), 159-91. • Pannier, *Les Lapidaires Français*, 1882: pp. 189-204 [general discussion of Mandeville's Lapidaire].

**3215. c1500:** Le Lapidaire en francoys compose par messire Iehan demandeulle cheualier. [Paris, Michel Le Noir, c1500.]

2°: A-B<sup>6</sup>; 12ℓ.; no pagination. Paragraph marks.

EXTREMELY RARE. Mandeville was one of the most famous traveller's of the Middle Ages, but his most popular accounts of the world's wonders may have been derived from his imagination and books of his own library.

The Hoover Catalog mentions the sources of David C. Cabeen, *A Critical Bibliography of French Literature, I. The Mediaeval Period* (Syracuse, 1952), p. 492. Also, the Voynich Catalogue 31, no. 143 (1912?).

REFERENCES: BL: [no copy listed]. • CBN: [no copy listed]. • Goosse, A., "Jean d'Outremeuse et Jean de Mandeville," in: *Festschrift Walther von Wartburg zum 80. Geburtstag*. Tübingen, 1968, 1, 235-50. • Hoover Collection: no. 555. • Klebs, *Incunabula Scientifica*, 1938: p. 216. • Mourin, L., "Les lapidaires attribués à Jean de Mandeville et à Jean à la Barbe," *Romanica Gandensia*, 4 (1955), 159-91. • NUC: [no copy listed]. • Pannier, *Les Lapidaires Français*, 1882. • Sinkankas, *Gemology Bibliography*, 1993: no. 4148.

CONTENTS: alr, Title page.; alv-c8r, Text.; c8v, Blank.

REFERENCES: BL: [C.27.f.2.]. • Brunet. • *Catalogue des Bibliothéque de Rothschild*, 1884-1920: 1, 92-3 [reproduces the title page]. • CBN. • Hoover Collection: no. 555n. • Sinkankas, *Gemology Bibliography*, 1993: no. 4149.

**3217. 1544:** Le Lapidaire en Francoys. Contenant la Propriété & Vertu de Plusieurs Pierres Precieuses. Et les Noms & Couleurs desdictes Pierres et les Leux ou ilz Croissent. Auecq le liure techel des Philosophes & des Yndoys fait des enfans d'Israel. Translaté de Latin en Francoys par Messire Iehan de Mandeuille Cheualier. Paris, Per Alain Lotrian, 1544.

8°: A-C<sup>8</sup>; 24ℓ.; no pagination. Title vignette, ornamental initials, paragraph marks. Colophon: 20 Cy finist le Lapidaire en Francoys nouuellement imprimé à Paris. VERY RARE.

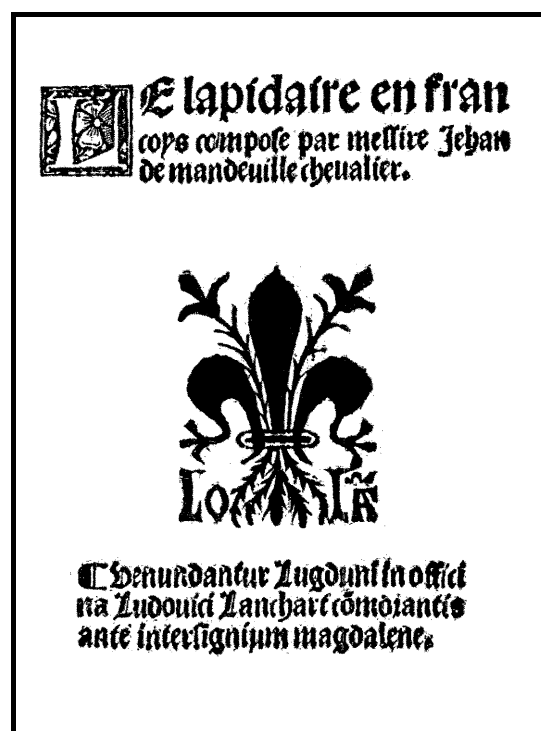
REFERENCES: BL: [no copy listed]. • Brunet: 3, col. 1361. • Hoover Collection: no. 556. • Sinkankas, *Gemology Bibliography*, 1993: no. 4150.

**3218. 1561:** Le Grand Lapidaire= | où sont declarez | les Noms de Pierres Orientales | avecque les Vertus et Propriétés d'icelles. | Aussi les isles et pays | ou elles croissent et don ou les aporte. | Compose par | Messire Jan de Mandeville, | Chevalier. | Veu et corrige par plusieurs marchans, ayant este esdictz pays et | regions, avecque l'opinion des habitants d'iceux; | outre les precedentes impressions; | Mil, cinq=cens, soixante et un. | [ornament] | A Paris. | Pour Jean Bonfons, libraire, demeurant en la rue neuve Nostre Dame, | a l'enseigne Saint Nicolas.

12°:

VERY RARE. The National Library of France holds a copy in its collections [FRBNF39309084].

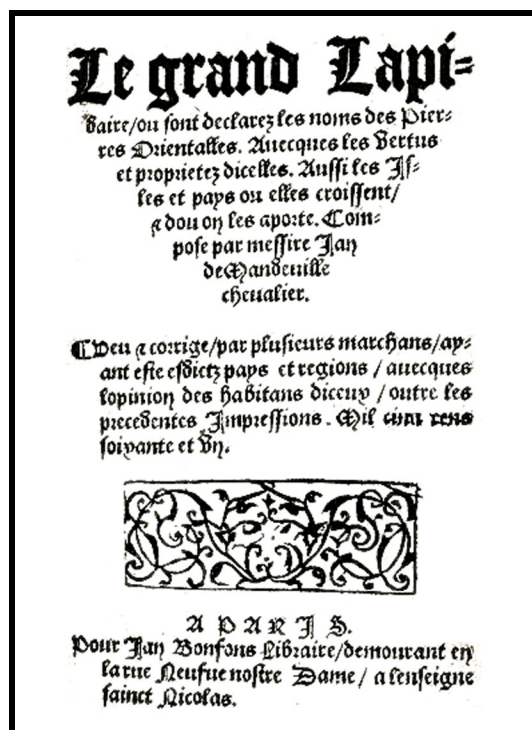
REFERENCES: BL: [no copy listed]. • Brunet: 3, col. 1361. • Sinkankas, *Gemology Bibliography*, 1993: no. 4151 [no detail].



LE LAPIDAIRE EN FRANCOYS, c1515

**3216. c1515:** Le Lapidaire en fran | coys compose par messire Iehan | de Mandeuille Chevalier | [Printer's device] | Venundantur Lugduni in officio | na Ludouici Lanchart Comoriantis | ante intersignium Magdalene.

8°: a-c<sup>8</sup>; 24ℓ.; no pagination. 25 lines. Text ends on c8r, "¶ Deo gratias." EXTREMELY RARE.



LE GRAND LAPIDAIRE, 1610



## MANUAL

**3219. 1610:** Le Grand Lapi= | daire/ ou sont declarez | les Noms de Pier= | res Orientales avecque les Vertus | et Propriétés d'icelles. Aussi les Is= | les et pays ou elles croissent/ | et don ou les aporte. Com= | pose par Messire Jan | de Mandeville, | Chevalier. | ¶ Veu et corrige par plusieurs marchans, ay= | ant este esdictz pays et regions, avecque | l'opinion des habitants d'iceuc/ outre les | precedentes impressions. Mil, cinq cens, | soixante et un. | [ornament] | A Paris. | Pour Jean Bonfons, Libraire/ deneurant en | la rue neuve Nostre Dame/ a l'enseigne | Saint Nicolas.

12°: VERY RARE.

REFERENCES: BL: [no copy listed].

**3220. 1862:** Le lapidaire | Du | Quatorzième Siècle. | Description | Des | Pierres Précieuses Et De Leurs Vertus Magiques, | D'Après Le Traité | Du | Chevalier Jean De Mandeville, | Avec | Notes, Commentaires Et Un Appendice | Sur Les Caractères Physiques Des Pierres Précieuses, | À L'Usage Des Gens Du Monde | Par | Is. del Sotto. | [ornate rule] | Vienne. | Imprimerie Impériale Et Royale De La Cour Et De L'État. | 1862.

4°: xv, [2], 213 p., 2 woodcut tables.

VERY SCARCE. Edited by Isidore del Sotto.

Reproduction in quasi-type facsimile of the *Le Grand Lapidair* (Paris, 1561) [which see entry above] together with an extensive commentary.

"Cet ouvrage, écrit en vieux français, contient force mots inusités ...; nous en offrons ... une espèce de reproduction, en langage moderne, dans laquelle cependant la naïveté du style et de l'expression a été conservée chaque fois qu'elle ne portait pas trop atteinte à la compréhension."—Preface.

**Facsimile reprint, 1972:** *Le lapidaire du quatorzième siècle description des pierres précieuses et de leurs vertus magiques d'après le traité du chevalier Jean de Mandeville. Avec notes, commentaires et un appendice sur les caractères physiques des pierres précieuses à l'usage des gens du monde*, Isaac del Sotto. Geneve, Slatkine Reprints, 1974. xv, 213 p., illus.

REFERENCES: BL: [7106.cc.7.]. • Brunet: 7, col. 933. • Caillet, *Manuel*, 1912: no. 7069. • Sinkankas, *Gemology Bibliography*, 1993: no. 6254.

## MANÈS, W.

### 3221. — French, 1847.

Statistique Minéralogique, Géologique et Minéralurgique du Département de Saône-et-Loire par W. Manès. Macon, Dejussieu, 1847.

8°: 242 p. A topographical study of the mineralogy, geology, and processing capabilities of the region of Saône-et-Loire in France. RARE.

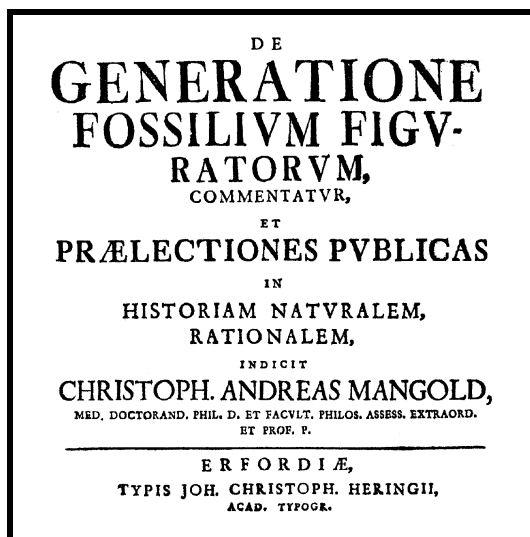
REFERENCES: BL. • NUC.

**MANGOLD, Christoph Andreas.** (BORN: Erfurt, Germany, 1719; DIED: Erfurt, Germany, 2 July 1767) *German physician.*

Mangold studied medicine and philosophy at the Universities of Erfurt and Jena. He accompanied Count Gotter in his travels in France. In 1751, he was named professor ordinary of anatomy, chemistry and philosophy at the University of Erfurt. He held membership in the Erfurt Akademie der Wissenschaften (Academy of Science). His writings consist of dissertations and academic programs on medical and chemical themes. Ferguson (1906) that "it can be said of him that he studied himself to death. On the 29 June 1767, he took a fancy in the evening to write a dissertation, and he worked through the cold night till 1 o'clock in the morning; at 9 o'clock he was found unconscious, and his death took place on 2 July 1767."

REFERENCES: Baldinger, E.G., *Ehrendactniss des Herrn Christoph Andreas Mangold ... an die Churmainzische*

*Akademie der Wissenschaften*. Jena, bei Christian Henrich Cuno, 1767, 40 p. • Ferchl: 336. • Ferguson, *Bibliotheca Chemica*, 1906: 2, 71-2. • Hirsch, *Biographisches Lexikon*, 1884-8: 4, 116. • Jöcher, *Gelehrten-Lexikon*, Supplement: 4, col. 574. • Meusel, *Verstorbenen Deutschen Schriftsteller*, 1802-16: 8, 455-6. • Poggendorff: 2, col. 34.



GENERATIONE FOSSILIVM FIGVRATORVM, 1745

### 3222. — Latin, 1745 [Dissertation].

De | Generatione | Fossilivm Figv- | ratorvm, | Commentatvr, | Et | Prælectiones Pvblicas | In | Historiam Natvralem, | Rationalem, | Indicit | Christoph. Andreas Mangold, | Med. Doctorand. Phil. D. Et Facvlt. Philos. Assess. Extraord. | Et Prof. P. | [rule] | Erfordia, | Typis Joh. Christoph. Heringii, | Acad. Typogr.

4°: A-B<sup>4</sup>; 8<sup>l</sup>.; [16] p.

CONTENTS: [2 pgs], Title page, verso blank.; [14 pgs], Text, dated on the last line of the last page, 4 August MDCCXLV [=1745].

VERY RARE. A dissertation giving a commentary on the generation of figured stones and public reflections in the rational of natural history.

REFERENCES: BL: [no copy listed]. • Ferchl: p. 336. • NUC: [no copy listed]. • Personal communication: [Photocopy supplied by Larry Conklin]. • Poggendorff: 2, col. 34.

### 3223. — Latin, 1765.

Programa de necessitate sollicite investigandi strata terrae ad utilem mineralium cognitionem. Erfordia, 1765.

4°: VERY SCARCE.

REFERENCES: BL: [no copy listed]. • LKG: XIII 110.

## MANUAL.

A Manual of Mineralogy; In which is Shown how much Cornwall ... (Truro, 1825).

See: Hogg, Thomas.

**MARABIGNA, Dott. Carmelo.****3224. — Italian, 1835.**

Materiali | Da Servire Alla Compilazione | Della  
| Orittognosia Etnea | Memoria Sesta | Sulla  
Famiglia De' Silicidi | E | Memoria Settima |  
Sulla Famiglia De' Fosforiti: | Con Un Appendice  
| Contenente La Descrizione Di Alcune Specie |  
Nuovamente Scoperte | Del | Dott. Carmelo  
Marabigna | [...11 lines of title and memberships...]  
| [tapered rule] | Catania | Dal Pappalardo | 1835.

8°: [2], [1]-65, [1] p. PAGE SIZE: 250 x 170 mm.  
CONTENTS: [2 pgs], Title page, verso blank.; [1]-65,  
Text.; [1 pg], Blank.

RARE. In this work, Marabigna brings together information about the mineral and rocks found around the volcanic mountain of *Ætna*. It was a step in developing a mineralogy of the area. An appendix lists some species newly discovered at the mountain.

REFERENCES: BL: [no copy listed].

**MARBODE, Bishop of Rennes.** (BORN: Angers, France, 1035; DIED: Angers, France, 11 September 1123) *French theologian, ecclesiastical writer & hymnologist.*

Marbode, whose true name was "de Marboeuf," received his early education at Angers. After teaching some time at the cathedral school of Angers, he was put at the head of the educational system of the city and Diocese of Anvers in 1067. Later he became archdeacon and in 1096 Urban II appointed him Bishop of Rennes. In his youth he indulged in many excesses, but from the time he became bishop his life was without reproach. In 1104 he was present at the Council of Tours, and in 1109 he was made administrator of the Diocese of Angers. At the age of eighty-eight he resigned his diocese and withdrew to the Benedictine monastery of St. Aubin at Angers where he died soon after.

REFERENCES: ABF: I 700, 163-166. • Ernault, *Marbode, eveque de Rennes, sa vie et ses ouvrages*, Rennes, 1890. • Feller, *Biographie Universelle*, 1851. • Ferry, C., *De Marbodi rhedonensis episcopi vita et carminibus*, Nemausi, 1877. • *Nouvelle Biographie Générale* (Hoefer). • Poggendorff: 2, cols. 39-40. • WBI.

**3225. — Latin, 1511 [First edition].**

Libellvs De Lapidibvs | Preciosis Nvper | Editvs.  
| Cuspinianus Lectori.

4°: a<sup>6</sup> b-c<sup>4</sup> d<sup>8</sup> (d8 blank); 22ℓ.; no pagination or foliation. Caption title (a4r): Enchiridion Marbodei Galli de lapidibus preciosis. Initial space, with guide letter. Includes index.

EDITIO PRINCEPS. Very rare. Prepared by Joannes Cuspinianus [see note below]. Marbode's verse treatise on the virtues of stones was one of the most popular lapidaries through the 16th century. It is generally considered a medical treatise as most of the verses pertain to the medical virtues of the stones listed.

The most famous didactic poem by the Latin poet Marbodius and the first to be edited by Pictorius. Written in hexameters, it describes as many as 60 precious stones with their peculiar virtues, both natural and magic. This Freiburg edition was the model for another edition produced in Paris the same year.

LIBELLVS DE LAPIDIBVS  
PRECIOSIS NVPER  
EDITVS.

Cuspinianus Lectori.

SI VARRONIS. CELII. GALBAE. MUTIANI. COR. NEPOTIS  
PISONIS. FABII. TUBERONIS. FABIANI CATONIS monumenta  
extaret: ut interim Græcos omittā: qui de gemis ac lapi-  
dibus scriptitarūt. superuacuum esset hūc prodire libellū in  
publicū. Nam & Theophrasti liber de lapidibus ad nos  
lacer puenit. Et Nicander a plerisq; ob difficultatē negligit  
Sed & diis lacte supplicamus & mola falsa litamus ut ille  
ait: quū thura nō habemus. Iccirco hūc amici. libellū am-  
plectere brachiis candide lector. Quod si obscura quādā  
tibi uidebunt: quādā abstrusa: si Viennæ es: nō pudeat te  
Gymnasiū nostrū publicū subire: atq; ea excerpere quæ  
quotidie haud negligēter dictamus: nulla enī tibi uerecū-  
dia inde accedet si nō erit ingēs aliqua utilitas. Si abes: ex-  
pecta donec nostri egredientī cōmentarioli. Interea Pliniū  
& eius Metaphrastē. Solinū. Dioscoridē. Galenū. Aui-  
cennā. Serapionē: & Albertū: hic digito tibi signatos per-  
lustrato & gemmarū tibi patefcent uires. Vale.

2

LIBELLVS DE LAPIDIBVS, 1511

In the historians' task to determine the origins of the Scientific Revolution, some few have looked no further back than the nineteenth century while most have concentrated instead on the drama of the Copernican Revolution. The search seldom delves back to the allegedly superstitious middle ages except as a contrast to the rational, modern scientific age or the scientific-becoming age. In his monumental *Etudes sur Leonard de Vince* (Paris, 1906-13) and other works, Pierre Duhem did much to persuade historians to look still further back in time; but his effort' was a pioneer work in the search for the antecedents to sixteenth century science. Lynn Thorndike (*History of Magic and Experimental Science*, 8 vols. [New York, 1923-58]) contributed heavily to a search for the medieval origins of science but his effort was so tremendous, so detailed, that he never synthesized the meaning.

As early as the eleventh century some medievalists see a changing world-outlook - a phrase used by Jacob Burckhardt to describe the Italian Ren-naissance. Some few believe that science was a gradual process, stimulated by economic revival and a new attitude toward manual work, of separating the supernatural from the natural and of believing that knowledge was power. In this context Marbode of Rennes' *De lapidibus* ("On stones") is studied. There is a new spirit in his work, not seen in earlier lapidaries, which emphasizes that the knowledge of stones is useful and a means of power for men. Marbode's lapidary then becomes the model for numerous subsequent treatises. More

## MARBODE

important, the utility of the stone-lore, however magical some of it may seem to moderns, was a constant theme. This trend toward practicality makes a study of *De lapidibus* a revealing in-sight into the formulation period of the 'Renaissance of the Twelfth Century'.

Riddle in a compilation of manuscript lapidaires : A total of 616 lapidary manuscripts, mostly in Latin, were noted and of these 125 were Marbode's *De lapidibus* in Latin.' At once, this makes lapidaries one of the more popular, if not the most popular, types of medieval scientific literature. By far Marbode's treatise was the greatest "best-seller" for many centuries in its category. In addition to the Latin text, there are also numerous vernacular translations. Little studied by historians of science, the lapidaries are regarded as little more than superstition. Linguists have paid some attention to lapidaries because some translations of Marbode's poem were among the earliest examples of vernacular dialects.' But why this immense and extraordinary popularity? That is the question which led me to study Marbode.

A probable answer to the question of Marbode's popularity was that his work was employed as a practical guide to medicine. Its study reveals a glimpse of how medicine was actually being practiced. Marbode's intention in writing was, as he tells us in his Prologue, to reveal the secrets concerning stones. He says that King Evax of Arabia sent information about the stones to the Emperor Tiberius (14 A. D. - 37). There is a danger, he feared, that the mysterious powers would be diminished by vulgarization, but, nonetheless, he feels compelled to pass them on to his privileged readers. His concern is with the stones' descriptions, locations and powers, specifically mentioning the 'art of medicine'. Marbode's modern reader may feel less privileged in knowing the secrets and more disturbed that the age so ascribed to inanimate objects such miraculous qualities admixed with glimpses of 'enlightened' pharmacy. Doubtlessly Marbode would be equally disturbed by modern man's reaction. Life has individuality, he might argue, in man, beast, herb and stone. Each stone's character, its life as it were, can be known by God's grace. God has given each its own special powers. Important to the understanding of the origins of modern science is noting that a new attitude of how to 'use' knowledge was developing. There was a new critical judgment which led to Bacon's proposition that knowledge is power. Antiquity and the early middle ages were not concerned with a quantitative analysis of a mineral's components. Indeed, there was no recognizable definition of what constituted a mineral. The explanation sought of a mineral or stone was: "What is its virtue?" Only indirectly related is the matter of its physical composition, as Dietlinde Goltz recently observed in her general study of pre-modern mineral nomenclatures. Constantly Marbode tells his readers that the stones are power-laden and this power is to be exploited by men, who know the secrets. Perhaps beginning with Marbode, the late medieval lapidarists placed an

emphasis on the mystical and practical virtues of each stone which starts a line of development from his *De lapidibus* to Albert the Great's *De mineralibus* and to Georg Agricola's *De re metallica*. The emphasis on the use of stones is a new development of the late eleventh century - although Marbode certainly took his information from ancient sources.'

In general, there are three types of lapidary literature. The scientific lapidary was derived from such writers as Theophrastus, Dioscorides, Damigeron and Galen. Secondly, the magical or astrological lapidary, traced by some authors to Alexandrian writings, did not enjoy the popularity of the first category. Finally, the Christian lapidary or Christian symbolic lapidary was an ever popular form, especially in the early middle ages.' The Christian symbolic lapidaries describe the twelve stones mentioned for Aaron's breastplate in Exodus or in the Apocalyptic literature." Although formulated by such scholars as Joan Evans and George Sarton,<sup>7</sup> these three categories are handy for casual classification; but they are not mutually exclusive, and in fact often overlap. In this light, Marbode's *De lapidibus* should be regarded as an example of the scientific variety; however, Marbode would probably neither understand nor have any patience with such sophisticated categories, since most lapidarists drew on all knowledge about stones and were not so restricted as to form. Marbode, in fact, wrote three smaller lapidaries which are not so readily classified.

All three discuss the twelve Christian stones which would seemingly make them a member of the third category. Marbode's first small lapidary in verse would routinely be of the Christian symbolic, as well as the third lapidary whose content is also mostly Christian symbolism. The middle one, however, discusses the medical uses of the twelve Christian stones, thus making it possible also to classify it as a scientific lapidary. Thus, even these three small Marbodean lapidaries defy the categorical classification system.

**Critical editions & translations, English, 1977:** Riddle, John M., *Marbode of Rennes' De lapidibus considered as a medical treatise with text, commentary, and C. W. King's translation, together with text and translation of Marbode's minor works on stones*. Wiesbaden, Steiner, 1977. xii, 144 p. [Published as: *Sudhoffs Archiv*, Beihefte, Heft 20; ISBN: 3515026223.; review, *Speculum*, 57 (1982), 914, by H. Bloch.]

Riddle provides here a translation of *De lapidibus*, along with three minor works on stones by Marbode, with the Latin facing the English translation. There is a thorough discussion of Marbode's source material and a superb commentary regarding each specific stone.

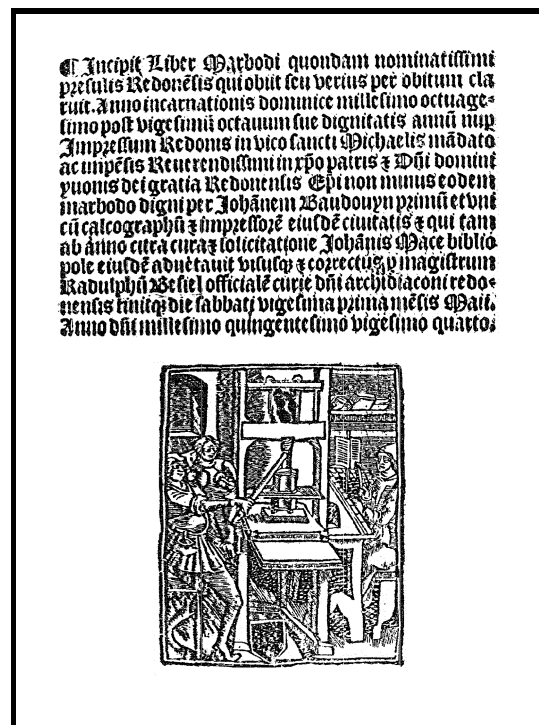
**German, 1983:** W. Wiemann, *Cuspinianus Kommentar des liber lapidum Marbods. Kritischer Text und deutsche Übersetzung von Cod. 5195 (sowie der editio princeps von 1511)*. Dissertation Heidelberg (1983). 28, 467 p., chart. [A dissertation consisting of a critical text of Cuspinian's commentary and German translation of the manuscript that was used to prepare the 1511 edition.]

**Johannes Cuspinianus.** (BORN: Schweinfurth, Germany, December 1473; DIED: Vienna, Austria, 19 April 1529) *German poet & philosopher*. Cuspinianus, Johannes (actually J. Spiessheimer), \* at the end of December 1473 Schweinfurth (Germany)? 19. 4. 1529 Vienna, Humanist, Arzt, Diplomat, Historiker, Dichter. Came to studies

into Leipzig and peppering castle 1492 to Vienna, where Maximilian I. 1493 crowned it to the poet. As studying at the university and a teacher at the citizen school to pc. Stephan he came with the Humanisten into contact, became 1499 Dr. of the medicine and the professor at the university. After the death of K. Celtis 1508 professor of the dichtkunst, was considered as most important Humanist Vienna. Since 1510 several times envoy (Orator) of the yard in Hungary and Poland, accomplished the Viennese to Cuspinianus prince day of 1515; afterwards city counsel of Vienna. Cuspinianus rendered large services as discoverer and an editor of classical and medieval historical sources (chronicle of Otto of freeing). Its 1527/28 "Austria begun" is particularly important, critical historical-geographical regional studies of Lower Austria, which remained however fragment. Its grave is in the Viennese step Hans cathedral.

Literature: H. Ankwicwz Ankwicwz-Kleehoven, the Viennese Humanist J.Cuspinianus, 1959.

REFERENCES: Adams, *Birth and Development*, 1938: pp. 142-55. • BL: [no copy listed]. • NUC: 360, 495-6 [NM 0201167]. • Sartori, *Introduction*, 1928-52: 1, 764-5. • Sinkankas, *Gemology Bibliography*, 1993: no. 4168. • Thorndike, *History of Magic*, 1923-58: 1, 775. (Cuspinianus) Ankwicwz-Kleehoven, H., *Johann Cuspinianus briefwechsel, gesammelt*. München, Beck, 1933. xviii, 239 p. [Published as: *Veröffentlichungen der Kommission zur erforschung der geschichte der reformation und gegenreformation Humanistenbriefe*, Band 2]. • Ankwicwz-Kleehoven, H., *Der Wiener Humanist Johannes Cuspinian, Gelehrter und Diplomat zur Zeit Kaiser Maximilians I.* Graz, H. Böhlau Nachf., 1959. xi, 344 p., illus., plates, ports., map, facsim. [Bibliography, p. [vii]-viii, "Die Werke Cuspinians"]].



INCIPT LIBER MARBODI, 1524

**3226.** Collected works, 1524: ¶ Incipit Liber Marbodi quondam nominatissimi | presulis Redonensis qui obiit seu verius per obitum cla | ruit ... correctus per magistrum

| Radulphum Besiel... [Redonis, per Johannem Baudouyn 1524].

4°: A-F<sup>4</sup>; 24ℓ.; no pagination.

EXTREMELY RARE. His works were first published at Rennes in 1524. A new and enlarged edition was published by Beaugendre (Paris, 1708), reprinted in P.L. They comprise many lives of saints, various epistles and some elegantly written hymns.

REFERENCES: CBN: 105, col. 781 [Yc.1533]. • NUC: [no copy listed]. • Sinkankas, *Gemology Bibliography*, 1993: no. 4169.

**3227. 1531:** Marbo= | Dei Galli Poetae Ve= | tustissimi de lapidibus pretiosis Encheri= | dion, cum scholijs Pictorij Vil= | lingensis. | Eivsdem Pictorij De | lapide molarī carmen. | Lectori. | Qui cupis emunctum gemmarum scire medullas, | Huc uenias, totum continet iste liber: | Qui decies senis capitellis nomina dicit, | Et species, patrias, quid ualeantq̃ simul. | Anno M. D. | XXXI.

8°: A-G<sup>8</sup>; 56ℓ.; no pagination. No publisher on title page, but attributed to Freiburg in Breisgau. PAGE SIZE: 146 x 100 mm. RARE.

CONTENTS: A1r, Title page.; A1v-A2r, "D. Vdalrico Vvrtner."; A2v-A3r, "Pictorivus Lectori Can= | dido S.D."; A3v-G6r, "Enchiridi= | on Marbodei Galli De | lapidibus pretiosis." [=text]; G6v-G7r, "Qverela Qvod Inter | lapides pretiosos molaris lapis tacetur."; G7v-G8r, "Gemmarm Index."; G8v, Blank.

**Georg Pictorius.** (BORN: Villingen near the Donau, Schwarzwald, Gemany, c1500; DIED: 1569) *German physician*. Pictorius was first a school master in Freiburg in Breisgau, later he studied medicine, and soon thereafter was promoted to Professor. He edited many works of medical and scientific value.

REFERENCES: BL: [11388.a.18.]. • Brunet: 3, 1392. • CBN: 105, col. 781 [S.21764]. • *Freilich Sale Catalog*: no. 374. • LKG: XVI 189. • NUC: 360, 495-6 [NM 0201163]. • Raby, F.J.E., *A history of secular Latin poetry in the Middle Ages*. Second edition. Oxford, Clarendon Press, [1957]. 2 vols: 1, 331. • Sinkankas, *Gemology Bibliography*, 1993: no. 4170. • Ward & Carozzi, *Geology Emerging*, 1984: no. 1496. (Pictorius) ABF: I 834, 3-6; II 518, 243. • Hirsch, *Biographisches Lexikon*, 1884-8: 4, 564. • Jöcher, *Gelehrten-Lexikon*, 1750-51. • WBI.

**3228. 1531:** Marbo: | Dei Galli Poetas Ve | tustissimi de lapidibus preaois | Enchiridon, cū scholijs | Pictorij Villin= | gensis. | Eivsdem Pictorii De | lapide molarī carmen. | [ornament] | Parisiis | Excudebat Christianus Wechelus, sub scuto | Basilaensi, in uico Iacobæo, anno | 1531.

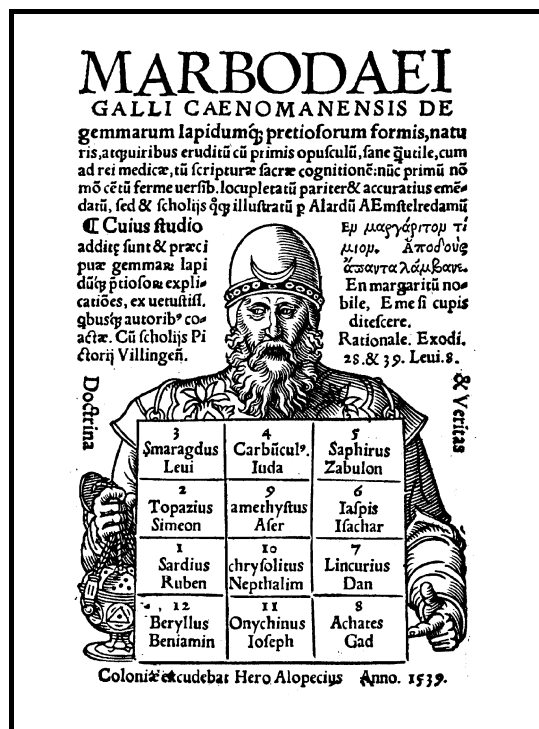
8°: A-G<sup>8</sup>; 56ℓ.; [1]-110, [2] p. Ornamental initials. Woodcut device on title page and on last leaf. RARE.

REFERENCES: BL: [977.a.11.]. • CBN: 105, col. 781 [S.21780]. • NUC: [no copy listed]. • Sinkankas, *Gemology Bibliography*, 1993: no. 4171.

**3229. 1539:** Marbodaei | Galli Caenomanensis De | gemmarum lapidumq̃ pretiosorum formis, natu | ris, atzuiribus eruditū cū primis opusculū, sane q̃utile, cum | ad rei medicæ, tū scripturæ cognitionē:nūc primū nō | mō cētū ferme uersib. locupletatū pariter & accuratius emē= | datū, sed & scholijs q̃q̃ illustratū p Alardū Æmstelredamū | [...8 lines of Latin and Greek text surrounding a woodcut figure representing Aaron and the 12 stones of the biblical breast shield...]

8°: A-Q<sup>8</sup>; 126ℓ.; [1]-124, [2]ℓ. Numbered in folio on the recto side only. Woodcut decoration on the title page. PAGE SIZE: 150 x 98 mm.

CONTENTS: A1r, Title page.; A1v-A2r, "Autores."; A2r-A4r, "¶ Hieronymus ad Fabiolam de | uestitu sacerdotum."; A4r-A6r, "¶ Reveren | Dissimo In Christo"—dated 1539.; A6r-A8v, "Aladvæmstelre | damus Lectori."; A8v-??r, "¶ Marbo= [reverse ¶] | Dæi Galli Caenomanensis."; ??v-Q6r, "¶ Praeci= [reverse ¶] | Pvæ Lapidvm Preciosorvm."; Q6v-Q7v, Index.; Q8r, "Errata."; Q8v, Blank.



DE GEMMARUM LAPIDUMQ, 1539

VERY RARE. Edited by Alaard (of Amsterdam) [see note below] and published by Hero Fuchs [=Alopecius]. Alaard had a much more complete and correct manuscript than did Pictorius so that this edition contains 100 more verses of the original poem. He also added the variants of the text, extracts from the works of Plinius, Dioscorides, Galen, Philo, Hegesippus, Origenes, St. Basil, Gregory of Nazianzus, Chrysostomos, Marsilio Ficino, Ermolao Barbaro, as well as Pictorius' annotations and his own scholia, which he titled "Praecipuae Gemmarum Lapidumque Pretiosorum Explicationes."

Beginning on folio 76, in the section titled, "Marbodaevi sive potius incerti auctoris versus aliquot hactenus desiderati," Alaard has included 93 other verses describing 16 precious stones not included in the original poem of Marbodaevus. These describe: capnites, ophthalmius, obsianus, ignites, diadochos, exebenus, lingurus, daphnius, mennonius, galactites, odontes, lapis qui fronte nascitur asini, trisutes, phrygius, sarcophagus, and specularis lapis. These verses have been included (with his variants of reading) in several subsequent editions of the work. His dedicatory letter and his preface to the reader were reprinted in the critical edition of Marbodus edited by Beckmann (Göttingen, 1799; see entry below), where his variants and some of his annotations are also to be found. Alaard dedicated this edition to Georg of Egmont (=Haecmondensis), Bishop of Utrecht [d. 1559], to whom he gladly offers this work of Marbodus, which he calls "octavum orbis miraculum."

**Alaard of Amsterdam.** (BORN: Amsterdam, The Netherlands, 1491; DIED: Louvain, France, 1544) *Dutch theologian & poet.* Alaard first studied at Köln, later at Louvain, where he was interested in theology, Latin, Greek, and Hebrew. In 1520, he became an instructor at Louvain, where he held lectures on the grammar of Erasmus. Most of his many writings are theological in nature, but he was also the editor, commentator

and translator of works by Baerland, Budé, Hippocrates, Huisman (Agricola), Marbode, and Theophylactos, and thus played an important role in the scientific literature of the 16th century.

REFERENCES: BL: [987.b.28.]. • CBN: 105, cols. 781-2 [S.20382]. • Ferguson, *Bibliotheca Chemica*, 1906: 2, 73-5. • *Freilich Sale Catalog*: no. 375. • Hoover Collection: no. 558. • Mayer, *Biobibliography of Medical Authors*, 1941: no. 289.1. • NUC: 360, 495-6 [NM 0201158]. • Osler, *Bibliotheca Osleriana*, 1969: no. 5126. • Sinkankas, *Gemology Bibliography*, 1993: no. 4173. (Alaard of Amsterdam) Aa, *Biographisch Woordenboek*, 1852-78. • BAB: 9, 271-315. • *Biografisch Woordenboek Nederland*: 1, ?? . • Jöcher, *Gelehrten-Lexikon*, 1750-51. • Kobus, *Biographisch Woordenboek*, 1886. • Mayer, *Biobibliography of Medical Authors*, 1941: 48, portrait. • WBI.

**3230. 1540:** IN: Floridus Macer, [fl. 12th cent.] *Macri De materia medica lib. V. versibus conscripti per Ianum Cornarium medicum physicum enendati ac annotati, & nunquam antea ex toto editi; contenta singulis libris I. & II. De herbis ac plantis uulgaribus, III. De plantis peregrinis, IIII. De quibusdam plantis, item[que] animalium partibus, ac terrae speciebus, V. De lapidibus ac gemmis.* Franc[furti]: Chr. Ege[nolphus] 1540.

8°: [12], 132l. Includes indexes. COLOPHON: Franc. Chr. Egen., M.D.X.L. Book 4 is spurious; book 5 is by Marbode, Bishop of Rennes—Choulant, *Handbuch der Bücherkunde f.d. Ätere Med.*, 2. Aufl., 1841, p. 242.

VERY SCARCE. Macer, Floridus, fl. 12th cent. Title *Macri De materia medica lib. V. microform / versibus conscripti per Ianum Cornarium medicum physicum enendati ac annotati, & nunquam antea ex toto editi; contenta singulis libris I. & II. De herbis ac plantis uulgaribus, III. De plantis peregrinis, IIII. De quibusdam plantis, item[que] animalium partibus, ac terrae speciebus, V. De lapidibus ac gemmis.* Publisher Franc[furti]: Chr. Ege[nolphus] 1540. Description [12], 132 leaves; 16 cm. Note Book 4 is spurious; book 5 is by Marbode, Bishop of Rennes—Choulant, *Handbuch der Bücherkunde f.d. Ätere Med.*, 2. Aufl., 1841, p. 242. Includes indexes. Colophon: Franc. Chr. Egen., M.D.X.L. Continued by: Landmarks II. Language Latin Subject *Materia medica* – Early works to 1800.

REFERENCES: NUC. • Sinkankas, *Gemology Bibliography*, 1993: no. 4174.

**3231. 1555:** Marbo= | Dei Galli Poe= | Tae Vetsstissimi | Dactylotrocha, scholijs Georgij Pictorij | Villingani doctoris Medici, & Regiae cu= | riae Ensisheimij superioris Alsatiæ | Archiatri, nunc altera uice, supra | priorem æditionem, | illustrata. | Item de lapide Mo= | lari, & de Cote carmen Panegy= | ricum, eodem autore Geor= | gio Pictorio. | Basileæ.

8°: \*8 A-E8; 48l.; [16], [1]-80 p. Ornamental initials. COLOPHON: "Basileæ | Per Henrichum Petri, | Mense Martio, | An. M.D.LV."

RARE. Based on Pictorius' text.

REFERENCES: BL: [977.a.12.]. • CBN: 105, col. 780-1 [S.20384]. • *Freilich Sale Catalog*: no. 376. • NUC: 360, 495-6 [NM 0201157]. • Sinkankas, *Gemology Bibliography*, 1993: no. 4176.

**3232. 1574:** De Gemmis | Scriptum Evacis | Regis Arabum | Olim A Poeta | Qvdam Non Infœ= | liciter Carmine Redditum, | & nunc primum in lucem | editum. | Opera & studio D. Hen= | rici Rantzovii Serenissimi Danorum | Regis per Holsatium & Dietmar= | sium legati. | [ornament] | Vvitebergæ | Excudebat Lav= | rentius Schwenck, | M.D. LXXIII.

8°: A-C8 D3; 27l.; no pagination.

VERY RARE. The first appearance of Marbode's work under the authorship of the legendary Arabian King Evax, and which is where this title is sometimes bibliographically listed.

REFERENCES: NUC: 360, 495-6 [NM 0201159]. • Sinkankas, *Gemology Bibliography*, 1993: no. 4177. •

Thorndike, *History of Magic*, 1923-58: 1, p. 776.

**3233. Another edition, 1575:** Marbodei, Galli poetae vetustissimi de lapidibus preciosis enchiridion cum scholiis Pictorii. Eiusdem Pictorii de lapide molari carmen. In, Evax, King of Arabia. De Gemmis Scriptum, etc. 1575.

8°: VERY RARE.

REFERENCES: BL: [11388.a.14.]. • NUC: [under Evax?]. • Sinkankas, *Gemology Bibliography*, 1993: no. 4178.

**3234. Another edition, 1585:** Marbodei, Galli poetae vetustissimi de lapidibus preciosis enchiridion cum scholiis Pictorii. Eiusdem Pictorii de lapide molari carmen. ... 1585.

4°: A-K4; 40ℓ.; no pagination. VERY RARE.

REFERENCES: BL: [458.a.30.]. • CBN: 105, col. 782 [S.5236]. • NUC: 360, 495-6 [NM 0201160]. • Sinkankas, *Gemology Bibliography*, 1993: [no copy listed].

**3235. Another edition, 1695:** Marbodei, Galli poetae vetustissimi de lapidibus preciosis enchiridion cu scholiis Pictorii. Eiusdem Pictorii de lapide molari carmen. Notes: In. Gorlaeus (A.) A. Gorlaei Dactylorhœca pars prima(-secunda, etc.). 1695.

4°: RARE.

REFERENCES: BL: [140.a.1.]. • CBN: 105, col. 780 [J.5110]. • NUC: [Under Golaus, Abraham]. • Sinkankas, *Gemology Bibliography*, 1993: no. 4180.

**3236. Another edition, 1740:** Marbodei Galli | Poetæ Vetustissimi, | De | Lapidibus | Pretiosis | Enchiridion, | Cvm Scholiis Pictorii Villinglusis. | Ejvsdem Pictorii | De | Lapidem Molari Carmen. | Lectori. | Qui cupis emunctim gemmarum scire medullas, | Huc benias, totum continet iste liber: | Qui decies senis capitellis nomina dicit, | Et species, patrias, quid valeantque simul. | Anno MDXXXI. | [rule] | Ex | Bibliotheca Bruckmanniana | Recvs. | Wolfenbüttele Anno MDCCXXX.

4°: a-k4 12; 42ℓ.; [1]-82, [2] p.

RARE. This is apparently a reprinting of the 1531 text, with minor editing by FRANZ ERNST BRÜCKMANN.

REFERENCES: BL: [B.388.(2.)]. • CBN: 105, col. 781 [Yc.1514]. • NUC: 360, 495-6 [NM 0201164]. • Sinkankas, *Gemology Bibliography*, 1993: no. 4183.

**3237. 1799:** Marbodi | Liber Lapidvm | Sev | De Gemmis | Varietate Lectionis | Et | Perpetva Annotatione | Illvstratvs | A | Iohanne Beckmanno. | [tapered rule] | Additis Observationibvs | Pictorii, Alardi, Cornarii. | [tapered rule] | Svbiectis Svb Finem Annotationibvs | Ad | Aristotelis | Avscvlutiones Mirabiles | Et Ad | Antigoni Carystii | Historias Mirabiles. | [ornate rule] | Göttingae | Typis Ioann. Christian. Dieterich. | 1799.

8°: a8 b6 A-K8 L2; 91ℓ.; [i]-xxviii, [1]-164 p. PAGE SIZE: 212 x 120 mm.

CONTENTS: [i-ii], Title page, verso blank.; [iii]-vi, "Esti Marbodi, episcopi Redonensis, ..."—dated 4 August 1798.; [vii]-xvi, "Beaugendre | In Praemonitione ad Marbodi Opervm | Editionem pag. 1382."; [xvii]-xxvii, "Dedicationes | Et | Praefationes."; xxviii, "Compendia Nomivm."; [1]-96, Text.; [97], Sectional title page, "Interpretatio | Gallica."; [98], Blank.; [99]-147, Text.; 148-153, "Novae Annotationes | Ad | Aristotelis Librv | De Mirabilibvs Avscvlutionibvs."; 154-164, "Annotationes | Ad | Antigoni Carystii | Historias Mirabiles."

SCARCE. Edited by Johann Beckmann [see note below]. Regarded as the most authoritative and useful early edition because of the inclusion of notes and citations from previous editions, including those of Pictorius and Alaard.

**Johann Beckmann.** (BORN: Hoya near the Weser, Germany, 4 June 1739; DIED: Göttingen, Germany, 3 February 1811) *German biologist.* Beckmann studied at Göttingen from 1758 to 1762. He then taught at the German Gymnasium in St. Petersburg from 1765-6. After an extensive trip through Sweden and Denmark, Beckmann secured a position at the University of Göttingen, where

he remained. He was a member of the Gesellschaft der Wissenschaften [Society of Science] in Göttingen 1776, Leopoldina 1761, and Baryerischen Akademie der Wissenschaften 1809.

REFERENCES: BL: [564.b.13.]. • CBN: 105, col. 782 [S.20407]. • LKG: XVI 190. • NUC: 360, 495-6 [0201168]. • Sinkankas, *Gemology Bibliography*, 1993: no. 4184. (Beckmann) ADB: 2, 238-9. • Beckert, M., *Johann Beckmann*, Leipzig, 1983. [Published as: *Biographien hervorragender Naturwissenschaftler, Techniker und Mediziner*, 68; 119 p., portrait]. • *Catalogue of Portraits of Naturalists*: 165 [3 portraits listed]. • DSB: 1, 554-5. • Mayerhöfer, *Lexikon der Naturwissenschaften*, 1958-75: 403. • NDB: 1, 727-8. • Poggendorff: 1, cols. 127-8. • Wagenitz, *Göttinger Biologen*, 1988: 22-3. • Zischka, *Allgemeines Gelehrten-Lexikon*, 1961: 63.

**3238. Danish transl., 1908-20:** Gamle danske urtebøger, stenbøger og kogeboøger Harpestræng udgivne for Universitets-Jubilæets danske Samfund ved Marius Kristensen. København, H.H. Thieles bogtrykkeri, 1908-1920.

8°: cii, 326 p., facsimis.

SCARCE. Translation by Marius Kristensen [1869-1941] of Marbode's work. It was originally issued in 7 parts as Skrifter Nr. 182, 192, 200, 215, 226, 236, and 253 of Universitets-Jubilæets danske Samfund. "Macer er aldeles afgjort kilden til det meste i Harpestrængs urtebøger."—p. xviii.; "Stenbogen er altså udarbejdet på grundlag af Marbods digt, men derefter er der foretaget indskud efter Arnolds stenbog."—p. lviii. Included are bibliographical references and indices.

## MARCELLINI, Silvestro.

### 3239. — Italian, 1801.

Trattato Compendioso Orittologico. Di Silvestro Marcellini ... Camerino, Delli Torchi Goriani, 1801.

8°: [1]-278, [2 errata] p., one plate (chemical symbols).

RARE. Marcellini describes the mineralogical world with considerable attention to the chemical composition of the species. According to the preface, the author's interest in the subject began in 1785 with the opening of a new pyrite mine near Fabriano that produced a great variety of minerals. He built a fine collection of these specimens and other geological and palaeontological samples from localities scattered across Italy and Europe that formed the basis of his *Trattato*.

REFERENCES: *Bibliographie Géologique l'Italie*, 1881: [no copy listed]. • BL: [970.g.5.]. • Freiesleben, *Uebersicht der Litteratur*, 1822: [no copy listed]. • NUC. • Roller & Goodman, *Catalogue*, 1976: 2, 159. • Ward & Carozzi, *Geology Emerging*, 1984: no. 1496.

## MARCUCCI, Lorenzo.

### 3240. — Italian, 1813 [First edition].

Saggio | Analitico-Chimico | Sopra | I Colori Minerali | E Mezzi Di Procurarsi | Gli Artefatti, Gli Smalti, E Le Vernici | Di Lorenzo Marcucci | Ed Osservazioni Fatte Dal Medesimo | Sopra La Pratica Del Dipingere Ad Olio | Tenuta Dalle Scuole | Fiorenttina, Veneziana E Fiamminga | Ne' Loro Migliori Tempi | Colle Note Del Sig. | Pietro Palmaroli | Restauratore Di Quadri Antichi. | [ornate rule] | Roma MDCCCXIII. | Nella Stamperia Di Lino Contedini | Con Facolta'.

## MARIVETZ

8°: 264, [2] p., one folded table.

**RARE.** Co-authored by Pietro Palmaroli [see note below]. This is the first appearance of an early, important study on the manufacturing of pigments and paints with the express aim of helping the reader to understand the colors used by the great painters of the Renaissance and 17th century. Since many of these pigments were based on the mixing of crushed minerals with some type of binder, this work has a peripheral interest in the science of mineralogy. It is the earliest analysis of plant-, mineral- and animal based pigments used in the paintings of the Renaissance masters and later artists. The various varnishes used are also discussed, as are the many sizing, and binding agents used. This work is expressly aimed at the professional picture restorer, with particular emphasis on the paints and working methods of Fra Bartolomeo, Raphael, Titian, Paolo Veronese, and Rubens.

In 1816, the more common second edition was published, and in 1833 a third edition appeared.

**Pietro Palmaroli.** (BORN: 1778; DIED: 1828) *Italian art expert.* Palmaroli was the leading picture restorer of his time and the inventor of 'rimozione a stacco', or the technique of removing a fresco from a wall without damaging either the fresco or the wall. In 1823, Palmaroli was called to Dresden and appointed chief restorer of the picture collection there.

REFERENCES: BL: [Second edition, 1816 only]. • Cicognara, *Catalogo Ragionato dei Libri*, 1821: no. 165 [Second edition, 1816]. • NUC. (Palmaroli) ABI: I 734, 311-313; II 436, 62. • Internet search. • Nagler, *Neues allgemeines Künstler-Lexikon*, 1835-52. • WBI.

**MARIVETZ, Étienne Claude de, Baron.** (BORN: Langres, France, c1728; DIED: Paris, France, 26 February 1794) *French physicist.*

Marivetz was the son of an extremely wealthy ice manufacturer in Dijon but later in his life he made poor investments where he lost much of his fortune. Early on he became interested in astronomy and physics, moving to Paris where he studied the sciences with great determination. A few months after the success of the Montgolfier brothers, he carried out his own aerostatic experiments. From 1784 he lived in Langres, and when the Revolution reached the town, Marivetz was sent back to Paris, where he was guillotined.

REFERENCES: ABF: I 708, 122-129. • Beauchamp, *Biographie Moderne*, 1816. • *Biographie Universelle*. • Doublet, E., "Le Baron de Marivetz (1728-94)," *Procès Verbaux Séances Société des Sciences Physiques et Naturelles de Bordeaux*, 1924-25, p. 15-18. • *ISIS*, 1913-65: 2, 148. • Jolibois, Emile., *La Haute-Marne ancienne et moderne, dictionnaire géographique, statistique, Historique et Biographique de ce Département, précédé d'un Résumé*. Paris, 1858. lxxvi, 564 p. illus., folding maps. [Reprinted, Avallon, Éditions F.E.R.N., 1967.]. • Laissus, *Cabinets d'Histoire Naturelle*, 1964: p. 690. • Le Moyne, Nicolas Toussaint., *Les siècles littéraires de la France*. Paris, 1800-3. 4 vols. [Reprinted, Genève, Slatkine, 1971.]. • Letillois, de Mézières., *Biographie générale des Champenois célèbres, morts et vivants précédée des Illustres Champenois, poème lyrique, et enrichie de plusieurs tables chronologiques*. Paris, Bur. des Journal des peintres, 1836. 227 p. • *Nouvelle Biographie Générale* (Hoefer). • Poggendorff: 2, col. 55. • WBI.

### 3241. — French, 1780-7.

Physique du Monde dédiée au Roi par M. le Baron de Marivetz et par M. Goussier. Paris, 1780-87.

5 vols. [VOL 1, part 1] 4°: [8], [2], CXXXII, 248 p., [2], 70 p. [VOL 2, part 1] 4°: [10], [2], V-XIV, 15-318 p. [VOL 2, part 2] 4°: [2], 210 p., folding table, 49 p., one folding table, 5 partly colored plates, pp. 73-114 (=continuation of the *Dictionnaire* of volume 1). [VOL 3] 4°: [2], [8], 392 p., plates VI-XIV (folding, partly colored), pp. 117-195 (=continuation of the *Dictionnaire* of volume 1/2). [VOL 4] 4°: [16], 554, [8] p. (=Nouveau Prospectus de l'Ouvrage Intitulé *Physique de Monde*), pp. 197-201 (=continuation of the *Dictionnaire* of volumes 1-3), 43 p., (=Explication des Planches), plates XV-XX (folding, partly colored). [VOL 5, part 1] 4°: [4], IV, [4], XV, [1], 8, 65, [1] p., one plate, 92, 344, [4] p. [VOL 5, part 2] 4°: xxxi, [1], 468 p., pp. [73]-201, [2], [1]-4 p., l. 5-17, pp. 18-49, [2] p. PAGE SIZE: 250 x 210 mm.

**RARE.** This is the only and unfinished edition of an ambitious project that ultimately bankrupted the author. Prepared in collaboration with Louis Jacques Goussier [see note below], it includes 20 partly hand-colored plates in folio that includes very good renderings of a microscope, a camera obscura, a telescope, and astronomical systems. The work's scope was to provide a description and general theory of physical geography by developing the theory from principals of celestial physics. Thus in this cosmogony Marivetz would attempt to explain the earth's and particularly France's geography and physical history and attempt through the framework of their theory to forecast future events. Hoefer calls the work very rare because the unsold copies were confiscated during the Revolution and destroyed after Marivetz's execution. The work was never completed and ended with the publication of the second part of volume five.

**Volume contents:** Tome Premier, *Polemique, les cosmogonies et systemes de la terre*. Tome Second, *Physique celeste, tableau du ciel et un traité des planetes, des etoiles et de la pesanteur*. Tome Troisième, *Lumiere, de l'optique, des telescopes*. Tome Quatrième, *De la vision et des couleurs*. Tome Cinquième, *Sur le feu*.

**Louis-Jacques Goussier.** (BORN: Paris, France, 7 March 1722; DIED: Paris, France, 23 October 1799) *French mathematician.* Goussier was a professor of mathematics in Paris. He supervised the technical plates of the *Encyclopedie* by Diderot and d'Alembert.

REFERENCES: BL: [32.b.6-12.]. • LKG: XIII 144\*\*\*. • NUC. • Taylor, Kenneth L., "Marivetz, Goussier, and planet earth: A late enlightenment geo-physical project," *Centaurus*, 48 (2006), no. 4, p. 258-283. (Goussier) ABF: I 470, 446-447. • *Biographie Universelle*. • DBF: ??, ??. • Le Moyne, Nicolas Toussaint., *Les siècles littéraires de la France*. Paris, 1800-3. 4 vols. [Reprinted, Genève, Slatkine, 1971.]. • *Nouvelle Biographie Générale* (Hoefer). • Poggendorff: 1, col. 933. • Thieme & Becker, *Allgemeines Lexikon*, 1907-50: ?? • WBI.

### 3242. — French, 1786.

Observations sur quelques objets d'utilité publique, pour servir de Prospectus à la seconde Partie de la Physique du Monde, ou à la Carte Hydrographique de la France, & au Traité général de la Navigation intérieure de ce Royaume. Paris, Visse, 1786.

8°: [4], 297, [2] p.

RARE. Calling itself a prospectus this is a strange book being a long advertisement for the author's *La Physique des Gens du Monde* (5 vols., Paris, 1780-7) and partly a work of science and economics. Some of the chapter headings are: "Plan d'un nouveau régime pour l'Administration des Ponts & Chaussées," "Observations sommaires sur les Corvées," "Sur la Machine de Marly," "Canal de Berry," "Aqüeduc de Maintenon," "Lettre sur la maniere de bâtir des Grecs & des Romains," and "Dérivation de la Loire." There are two further chapters describing the contents of past and future volumes of *La Physique des Gens du Monde*.

REFERENCES: Internet search. • LKG: XIV 336\*\*\*\*.



MARSIGLI

**MARSIGLI (Marsili), Luigi Ferdinando, Conte.** (BORN: Bologna, Italy, 20 July 1658; DIED: Bologna, Italy, 1 January 1730) *Italian aristocrat & naturalist*.

Marsigli was born to a noble family of Bologna. He did not complete his formal schooling, but he accumulated a vast knowledge of history, politics, geography, and the natural sciences. He undertook the exploration of two basic subjects: the structure of mountains and the natural condition of the sea, lakes, and rivers. He left many local observations concerning the structure of mountains. In 1724 he published the first treatise on oceanography, *Histoire physique de la mer*. In it he examined every aspect of the subject, including the physical (or geological) formation of basins and the plants and fish that lived in the sea. He founded the Accademia delle scienze dell'Istituto di Bologna in 1712. He served in the army of Emperor Leopold I, partly as an engineer, from 1682 to 1704, and attained high rank. He was used by the Emperor on diplomatic missions to the Pope and in peace negotiations with the Turks. This employment ended in dishonor when Marsili was involved in the surrender of Breisach. In 1708, when imperial troops threatened the Papal States during the War of the Spanish Succession, Marsili headed the Papal army. And later, about 1715, he inspected the defenses of the Papal States against possible Turkish raids on the Adriatic coast. He spent considerable time during his retirement along the French coast near Marseilles. Much of his study of the sea stems from these stays.

Marsili participated in the Accademia degli Inquieti in Bologna. In 1702 he built an observatory in his palace. He collected a museum. In 1712 he founded the Accademia

delle Scienze dell'Istituto di Bologna, which under his influence, immediately became an active center of scientific research, consisting mainly of natural history exploration of the area around Bologna. The Institute absorbed in Accademia degli Inquieti. In founding the Institute, Marsili gave it his collection and gave his house to the city for the Institute. In 1715, a member of the Académie Royale des Sciences, replacing Viviani. He was a member also of the Académie Royale des Sciences of Montpellier. He went to London in 1722 to be made a member of the Royal Society. Newton insisted on presenting him personally and praised him as both an already famous scientist and a founder of the new Academy of Bologna. He produced a mineralogical map of the Danube basin, showing mining sites with some geology.

REFERENCES: ABI: I 621, 215-263; 621, 313-338; II 363, 20-31; II S 52, 71-72. • Benvenuti, *Dizionario degli Italiani all'Estero*, 1890. • Csiky, *Forerunners of Mining-Geology Mapping*, 1984. • De Tipaldo, *Biografia degli Italiani*, 1834-45. • Ducati, P., *Biographie Luigi Ferdinando Marsili*, Milano, 1931. • Fantuzzi, G., *Memorie della vita del generale conte L.F. Marsili*. Bologna, 1770. • Frantuzzi, G., *Notizie degli scrittori Bolognese*. Bologna, 1780-9: 5 (1781), 286-327. • Frati, L., *Catalogo dei Mss di Marsili*. Firenze, 1928. • Imperatori, *Dizionario di Italiani all'Estero*, 1956. • Longhena, M. and A. Forti, "L.F. Marsigli e le sue osservazioni sul lago di Garda," *Atti Accad. Agric. Sci. Lett.*, Verona. Series 5., 9, 35 p., 12 figs. • Longhena, M., *Il conte L.F. Marsili*, Milan, 1930. • Neviani, A., "," *Atti Pont. Accad. Sci. Nuovi Lincei*, 84 (1931), 376-483 & 85 (1932), 49-72. • Neviani, A., "La precisa data di nascita del conte L.F. Marsili," *Rivista Stor. Scienze med. nat.*, 34 (1934). • Nissen (ZBI): 116 [other refs.]. • Parenti, *Aggiunte al Dizionario*, 1952-60. • Saccardo, P.A., "La botanica in Italia," *Memorie del Istituto Veneto di Scienze, Lettere ed Arti*, 26 (1895), 104, & 27 (1901), 67-8. • Sarjeant, *Geologists*, 1980: 3, 1659-60. • Stoye, J., *Marsigli's Europe, 1680-1730: The Life and Times of Luigi Ferdinando Marsigli, Soldier and Virtuoso*. Yale University, 1994. xii, 356 p., illus. [ISBN 0300055420]. • WBI.

### 3243. — Latin, 1698 [First edition].

Dissertatione Epistolare | Del | Fosforo Minerale | ò sia | Della Pietra illuminabile Bolognese, | A' sapienti ed eruditi | Signori Collettori | degli Acta Eruditorum di Lipsia, | Scritta da | Lvigi Ferdinando Conte | Marsiglii, | Di S.S.C. & R.M. Cameriere & Colonnello d'un | Reggimento di Fanteria. | [ornament] | A Lipsia. | [rule] | Anno M DC XCVIII.

4°: A-D<sup>4</sup>; 16ℓ.; [1]-31, [1] p., 19 plates (some folding). Title vignette.

RARE. The second paper in Italian describing the famous Bolognian stone (phosphorescent barite) was Marsigli's *Del Fosforo Minerale* that contained illustrations of the subject. Originally Marsigli had intended to publish the booklet as a present for ROBERT BOYLE but had set it aside in 1691 after Boyle's death. The text was abstracted in the *Philosophical Transactions* of 1698 (see: 20, 306). The author was dissatisfied with the current explanation of the light emission and thinks the stone is reflecting more light than it is transmitting. He also preformed chemical analysis of the stone which he regarded as a type of talc and found that it contained sulfur and what he thought was mercury.

REFERENCES: BL: [B.396.(6.)]. • Gatterer, *Mineralogis-*





DEL FOSFORO MINERALE, 1698

*chen Literatur*, 1798-9: 2, 13. • Harvey, *History of Luminescence*, 1957: p. 315 [reproduces the title page]. • Hoover Collection: no. 562. • LKG: XVI 114. • *Philosophical Transactions of the Royal Society of London*: 20 (16??), 308 [review].

**3244. 2nd edition, 1702:** *Dissertatione Epistolare del Fosforo Minerale* ò sia *Della Pietra illuminabile Bolognese*, ... Editio auctior; Latine et Italice juxta exemplar Lipsiens. impress. 1702.

4°: 62 p., one plate. VERY RARE.

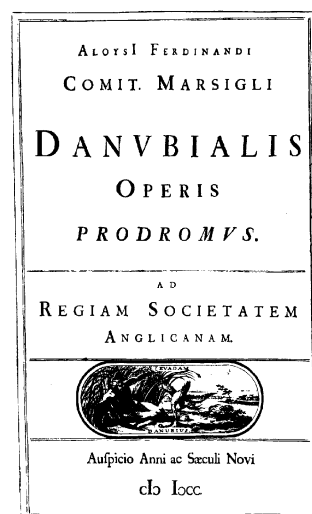
REFERENCES: BL: [no copy listed]. • Gatterer, *Mineralogischen Literatur*, 1798-9: 2, 13.

**3245. — Latin, 1700** [First edition].

[Contained within a double rule box:] Aloysi Ferdinandi | Comit. Marsigli | Danvbialis | Operis | Prodromvs. | [rule] | Ad | Regiam Societatem | Anglicanam. | [rule] | [vignette] | Auspicio Anni ac Sæculi Novi | c̄lō Iōcc.

2°:

VERY RARE. Marsigli's most ambitious of literary projects was proposed in 1700 in the *Danubialis Operis Prodromus*. Copies began to circulate in 1701, when readers everywhere could see for themselves what Marsigli had visualised. A dedication to the Fellows of the Royal Society of London which expressed his gratitude, begging for advice and corrections as well as encouragement, with an admission that he would be dedicating to Emperor Leopold the six volumes whose contents were described in the following pages. There was also inserted a specimen page showing the title of the work to be presented to Leopold, with



PRODROMUS, 1700

its lines printed alternately in red and black ink, and using no less than ten different type faces. In Marsigli's judgment, as in that of many contemporaries, great works offered to great men required this sort of ornament. Meanwhile more remained to be done to complete the definitive manuscript volumes and arrange for their publication. Fortunately everything seemed well in hand at a moment when Marsigli came nearest to what he wanted most, an elevated role in political affairs. Events conspired however, to cause the final work to be delayed for a quarter of a century.

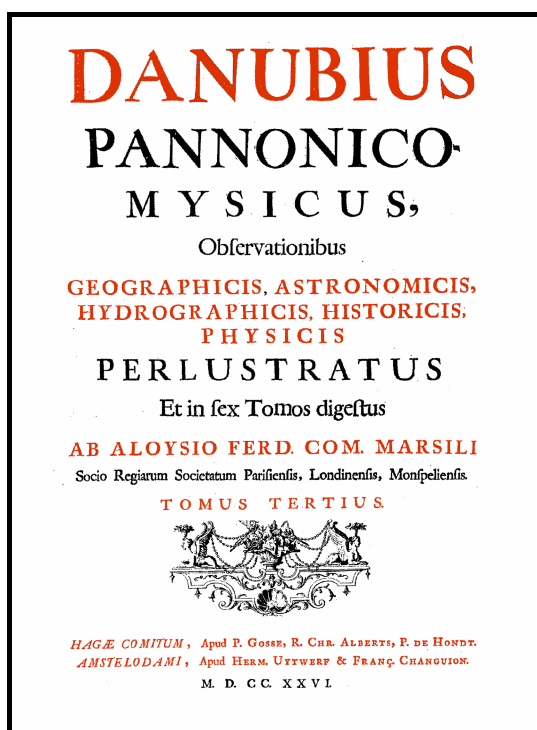
**French edition, 1700:** *Description du Danube ... contenant des observations géographiques, astronomiques, hydrographiques, historiques et physiques ... Traduite du Latin*. L.P. [Nuremberg,] 1700. 2°. [BL shelfmark: 748.d.7.]

REFERENCES: BL: [B.670.(12.)]. • LKG: XIV 833.

**3246. — Latin, 1726.**

[In red:] Danubius | [in black:] Pannonico- | Mysicus, | Observationibus | [in red:] Geographicis, Astronomicis, | Hydrographicis, Historicis, | Physicis | [in black:] Perlustratus | Et in sex Tomos digestus | [in red:] Ab Aloysio Ferd. Com. Marsili | [in black:] Socio Regiarum Societatum Parisiensis, Londinensis, Monspelienensis. | [in red:] Tomus Primus [-Sextus]. | [in black, ornament] | [in red:] Hagæ Comitum, Apud P. Gosse, R. Chr. Alberts, P. de Hondt. | Amstelodami, Apud Herm. Uytwerf & Franç. Changuion. | [in black:] M. D. CC. XXVI.

6 vols. [VOL 1] 2°:  $\pi^1 \uparrow^1 *^1 *^1 a^1 b^1 c^1 A\text{-Ddd}^1$ ; 57 $\ell$ .; [14], [1]-96, [4] p., frontispiece, 46 plates, 3 maps. [VOL 2] 2°:  $\pi^1 *^1 *^1 A\text{-Iiii}^1$ ; 80 $\ell$ .; [6], [1]-149, [5] p., frontispiece, 66 plates. [VOL 3] 2°:  $\pi^1 *^1 A\text{-Bbbb}^1$ ; 73 $\ell$ .; [4], [1]-137, [5] p., frontispiece, 35 plates. [VOL 4] 2°:  $\pi^1 *^1 A\text{-Aaa}^1$ ; 49 $\ell$ .; [4], [1]-92, [2] p., frontispiece, 33 plates. [VOL 5] 2°:  $\pi^1 *^1 A\text{-Llll}^1$ ; 83 $\ell$ .; [4], [1]-154,



DANUBIUS PANNONICO-MYSICUS, 1726

[7] p., frontispiece, 74 plates. [VOL 6] 2°:  $\pi^1$  \*1 A-Sss1; 66*l.*; [4], [1]-128 p., frontispiece, 28 plates. PAGE SIZE: 554 x 402 mm.

CONTENTS: [Vol 1] [2 pgs], Title page, verso blank.; [2 pgs], "Subscripterunt." [=181 names, 350 copies].; [2 pgs], "In Universum Opus | Præfatio." | Lector Humanissime.; [1 pg], Sectional title page, "Tomus I. | In Tres Partes | Digestus | Geographicam, Astronomicam, | Hydrographicam."; [1 pg], Blank.; [2 pgs], "In Primam Partem | Tomi Primi | Præfatio."; [Tab I; map].; [1 pg], Sectional title page, "Mappæ | Geographicæ | Danubii."; [1 pg], Blank.; [Tabs II-XX.; one folding map, double-page map].; 1-5, Text.; 6-29, "Descriptio | De | Danubii | Ethymo."; [30], Blank.; [31], Sectional title page, "Pars II. | Astronomica."; [32], Blank.; 35-50, Text.; [51], Sectional title page, "Pars III. | Hydrographica."; [52], Blank.; 53-96, Text.; [2 pgs], "Index | Tomi Primi. | Pars I."; [2 pgs], "Index | Figurarum."

[Vol 2] [2 pgs], Title page, verso blank.; [3 pgs], "Præfatio | Ad | Primam Partem | Tomi Secundi | De | Antiquitatibus Romanorum | Ad | Ripas Danubii."; [1 pg], Blank.; [1]-149, Text.; [1 pg], Blank.; [4 pg], "Index | Figurarum."

[Vol 3] [2 pgs], Title page, verso blank.; [1 pg], Sectional title page, "Tomus III. | De | Mineralibus | Circa | Danubium | Effossis, | Necnon Aguâ Abrasis, & in eum deductis."; [1 pg], Blank.; [1], "Præmium."; [2], Blank.; [3]-137, Text.; [1 pg], Blank.; [2 pg], "Index | Tomi Tertii."; [2 pgs], "Index Figurarum."

[Vol 4] [2 pgs], Title page, verso blank.; [2 pgs], "Præfatio | Ad | Tomum IV."; [1]-92, Text.; [2 pgs], "Index | Tomi IV. | De | Piscibus."

[Vol 5] [2 pgs], Title page, verso blank.; [1 pg], "Tomus V. | De | Avibus | Circa Aquas | Danubii | Vagantibus, Et De Ipsarum | Nidis."; [1 pg], Blank.; [1]-3, "Præfatio."; [4], Blank.; 5-154, Text.; [1 pg], Blank.; [3 pgs], "Index | Tomi Quinti."; [3 pgs], "Index |

Figurarum."; [1 pg], Blank.

[Vol 6] [2 pgs], Title page, verso blank.; [1 pg], "Præfatio | Ad | Tomum VI."; [1 pg], Blank.; [1], "De | Fontibus | Danubii."; [2], Blank.; [3]-125, Text.; [126], Blank.; 127-128, "Tomi VI. | Miscellaneorum Observationum, | Index | Materialium | Et Ordo | Tabularum."

RARE. An early and lavishly illustrated basic work on the natural history of the Danube river. Marsigli describes the natural history, antiquity, geography, the flora and fauna, mineralogy and geology of the Danube region between Vienna and the confluence of the river Jantra in Bulgaria. The first volume concerns geography, hydrography and astronomy. The second which describes the Roman and other ancient monuments in fact marks the beginning of the scientific archaeological studies in Bulgaria. The third part describes mining, fossils and minerals. This volume is divided into eight sections describing alluvium and stones of the Danube, metal deposits, various mines, structure of mountains, fossils and types of gypsum, gold, silver, copper, iron, antimony, mercury and the formation of metals. Volume four describes fish and other aquatic species of the river, and volume five the birds of the region. The final volume provides miscellaneous observations not covered in the previous volumes on the insects, plants, birds and animals.

The maps were engraved after J. C. Müller by G. C. Eimmart and Chr. Fleischmann. The riverbed between the Kalenberg near Vienna and the Jantra confluence in Bugaria is mapped on eighteen sheets. This work was begun as early as 1703 and many of the engravings were executed about the same time in Bologna, the author's home town. The plates are of outstanding quality and include illustrations of mining by F.M. Francis and a fine series of birds by R. Manzini with the first published illustrations of nests and eggs. This edition, printed for subscribers only, consists of a press run of only 350 copies.

**Facsimile reprint, 2004:** *Danubius Pannonico-Mysicus* (1726). Tomus I. Facsimile edition of the original Latin text, 46 engraved plates and 18 engraved maps of the Danube with Hungarian translation and an essay: The discovery of the Danube (Hungarian, pp. 7-88, English: pp. 91-159) by A. A. Deßk. Vizügyi Múzeum, Esztergom, 439 p., 48 figures, 46 plates, 18 maps. 30 x 22cm, hardcover. ISBN 9632170334.

REFERENCES: BL: [176.h.10-15.]. • LKG: XIV 834a. • Wood, *Literature of Vertebrate Zoology*, 1931: p. 452.

**3247. French transl., 1744:** Description du Danube, depuis la montagne de Kalenberg en Autriche, jusqu'au confluent de la rivière Sautra dans la Bulgarie etc. Haye, 1744.

6 vols. VERY SCARCE.

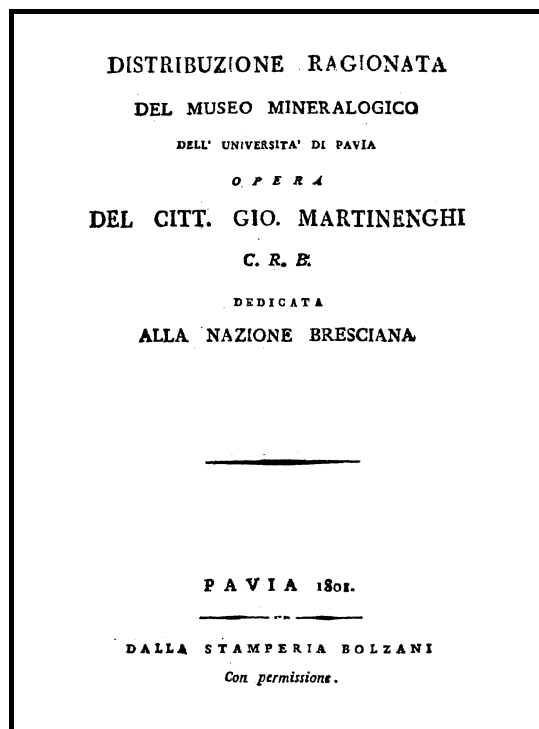
REFERENCES: BL: [177.h.1-6.]. • LKG: XIV 835b.

**MARTINENGHI, Giovanni.** (BORN: 1760; DIED: 1822) *Italian mineralogist.*

REFERENCES: ABI: II S 52, 165-166. • Vaccari, *Mineralogy and Mining in Italy*, 1998. • WBI.

**3248. — Italian, 1801** [Collection catalog].

Distribuzione Ragionata | Del Museo Mineralogico | Dell' Univerisita' Di Pavia | Opera | Del Citt. Gio. Martinenghi | C.R.B. | Dedicata | Alla Nazione



DISTRIBUZIONE RAGIONATA, 1801

Bresciana | [tapered rule] | Pavia 1801. | [ornate rule] | Dalla Stamperia Bolzani | Con permissione.

8°: 142 p., one plate.

RARE. Catalog of the mineral collection at the University of Pavia.

REFERENCES: BL: [7383.d.16.(1.)].

**3249. Supplement, 1802:** Supplimento di Giovanni Martinenghi ... Alla sua Distribuzione Ragionata del Museo Mineralogico dell' Università di Pavia ovvero Adattamento della nuova nomenclature del chiariss. Ab. Haüy ai pezzi del medesimo. Coll' aggiunta in fine d'un Progetto dello stesso Martinenghi circa il metodo, che sembra al presente il più opportuno d' adottarsi per poter più facilmente, e colla maggior economia diffondere nella Rep. Italiana il genio per la più utile Coltivazione delle Miniere. Pavia: Nella Tipografia di Giovanni Capelli, 1802.

8°: 58, [2] errata p.

RARE. According to the preface, Haüy's *Traité de Mineralogie* (4 vols., Paris, 1801) articulated mineralogy so well that the author deemed it necessary to publish this supplement to his *Distribuzione Ragionata del Museo Mineralogico* (Pavia, 1801), listing the various minerals according to Haüy's system.

### 3250. — Italian, 1801?.

Colpo d'occhio al metodo che si deve tenere negli studj mineralogici, etc. Pavia, anno x. [1801?]

8°: VERY SCARCE.

REFERENCES: BL: [7383.d.16.(4.)].

### 3251. — Italian, 1801.

Discorso preliminare alle lezioni di mineralogia recitato nella sala del pub. ginnasio di Brescia, al

7 Dic. 1798 ... Edizione II. Pavia, anno x. Rep., [1801?]

8°: VERY SCARCE.

REFERENCES: BL: [7383.d.16.(3.)].



MARTINI

**MARTINI, Friedrich Heinrich Wilhelm.** (BORN: Ohrdruf, Herzogth. Gotha, Germany, 31 August 1729; DIED: Berlin, Germany, 27 June 1778) *German physician & naturalist.*

Martini had a medical practice in Arten from 1758 to 1762, before relocating to Berlin. He founded the important and influential *Gesellschaft naturforschender Freunde* (Society of nature researcher Friends).

REFERENCES: ADB. • Baldinger, *Biographien Ärzte*, 1768-71. • *Beschäftigungen der Gesellschaft naturforschender Freunde*: 4, ??; • *Biographie Universelle*. • DBA: I 808, 267-318; II 859, 8-9. • Hirsch, *Biographisches Lexikon*, 1884-8. • Hirsching, *Historisch-literarisches Handbuch*, 1794-1815. • Meusel, *Verstorbenen Teutschen Schriftsteller*, 1802-16. • Poggendorff: 2, col. 64. • WBI.

The compilers of dictionaries had two large banks from which to rob: Linnaeus' *Systema Naturæ* and Buffon's *Histoire Naturelle*. They would abstract and arrange the contents of these works alphabetically. As a result the reader got Linnaeus' exactness and Buffon's fine writing in both science and literature. Creation of such dictionaries reached its zenith with the extravagant works of Houttuyn's *Natuurkyke Historie of Uitvoerige Beschryving der Dieren, Planten en Mineralen*, published in thirty-seven volumes (1761-85), and Valmont de Bomare's *Dictionnaire Raisonné Universel d'Histoire Naturelle*, that appeared in at least five editions, and Danish, Dutch, Italian and Russian translations. There was also Martini's *Allgemeine Geschichte der Natur in alphabetischer Ordnung* (1774), which ambitiously built on Bomare's *Dictionnaire* and invited its readers to participate in making a new edition by filling out pages left blank for the purpose. The new edition would not be complete, extending into the letter "C" in 11 volumes. In natural history, Martini said, "complete is a harmonious sound without meaning."

**3252. — German, 1773-93.**

Allgemeine Geschichte der Natur in alphabetischer Ordnung; fortgesetzt von einer Gesellschaft Gelehrten, und herausgegeben von Johann Georg Krünitz. Berlin, J. Pauli, 1773-93.

11 vols. [VOL 1: 1774] 8°: ?? p., 26 engraved plates. [VOL 2: 17 ] 8°: [16], 690 p., 51 engraved plates. (Alaun-Aouai). [VOL 3: 17 ] 8°: ?? p., 47 engraved plates. [VOL 4: 17 ] 8°: ?? p., 44 engraved plates. [VOL 5: 17 ] 8°: ?? p., 33 engraved plates. [VOL 6: 17 ] 8°: ?? p., 40 engraved plates. [VOL 7: 17 ] 8°: ?? p., 26 engraved plates. [VOL 8: 17 ] 8°: ?? p., 66 engraved plates. [VOL 9: 17 ] 8°: ?? p., 66 engraved plates. [VOL 10: 17 ] 8°: ?? p., 71 engraved plates. [VOL 11: 1793] 8°: ?? p., 74 engraved plates.

RARE. *Allgemeine Geschichte der Natur* or "The General History of Nature" by Friedrich Heinrich Martini and J. Krünitz is one of a number of large, comprehensive dictionaries of nature that were published during the 18th century. Written in the style of the French dictionaries like Valmont de Bomare's, this work of natural history and botany covers animals, entomology, plants, geology, minerals, fossils, and more, with many of the illustrative plates designed by the distinguished artists of the age like Seligmann, Maria Sibylla Merian, Edwards, Catesby, Knorr, Roesel, Martini, etc. These plates were mostly engraved by J. Schmidt in Berlin. Unlike many of the contemporary French works, however, this book is alphabetical in its treatment of the subject. Apparently it was not a profitable venture either, and was never completed, with the 11 volumes that appeared extending only from the letter A through entries beginning with 'Cog'.

REFERENCES: BL: [45.c.16.]. • LKG: VIII 5a. • Nissen (ZBI): no. 2721. • Zischka, *Allgemeines Gelehrten-Lexikon*, 1961: 208.

**3253. — German, 1773 [Sale catalog].**

Verzeichniß des Naturalienkabinetts, Bibliothek &c. des Hofrath Georg Ernst Stahl [by F.W.H. Martini]. Berlin, 1773.

8°: 182 p. RARE.

REFERENCES: BL: [no copy listed]. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 266.

**3254. — German, 1774 [Sale catalog].**

D. Friedrich Wilh. Heinrich Martini | Verzeichniß | einer | auserlesenen Sammlung | von | Naturalien | und | Kunstsachen, | auch | physikalischen Instrumenten, | nebst einer | systematischen Tabelle und Erklärung | von dessen | Konchylienkabinette. | [ornate rule] | Berlin, | bey Joachim Pauli, 1774.

8°: [8], 152 p.

VERY RARE. Describes the important natural history cabinet of Martini. Contained therein are descriptions of precious stones, fossils, minerals, anatomical specimens, shells, a few scientific instruments, and peculiar works of art. Martini was known as a compe-



VERZEICHNISS, 1774

tent conchologist, and the description of the shells are well annotated with references to contemporary reference works. The desire to make this catalog a lasting work of reference is shown by the inclusion of a large folding table, entitled, "D. Martini systematische Tabelle seines vollständigen Konchylienkabinetts."

Related work: *Neues sytematisches Conchylien-Cabinet* ... Nürnberg, bey Gabriel Nikolaus Raspe, 1769-1829. 12 vols. [USC Hancock Special Collections QL406.M37 1769; BL, 36.f.1.].

REFERENCES: *Allgemeine Deutsche Bibliothek*: 25, no. 2, 525. • *Beckmann P.O.B.*: 4, 570. • BL: [956.h.32.]. • Freiesleben, *Sächsische Mineralien-Verzeichnisse*, 1828: no. 28. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 266. • NUC: [no copy listed]. • Wilson, *History of Mineral Collecting*, 1994: 217.

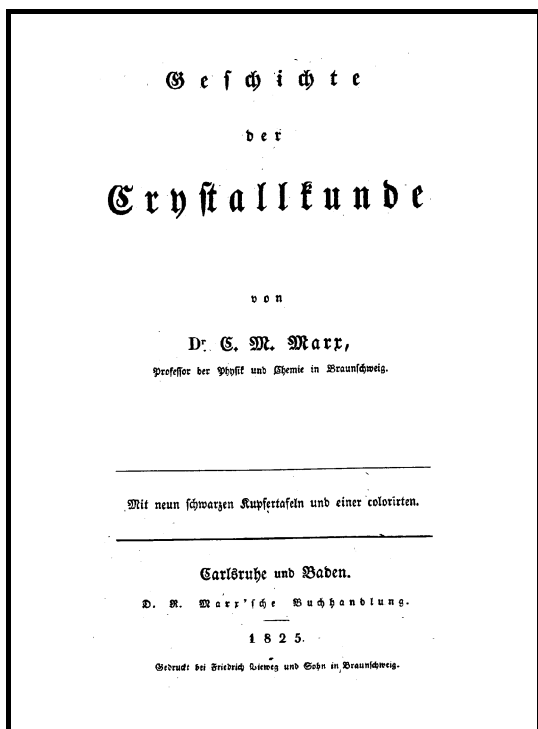
**MARX, Carl Michael.** (BORN: Carlsruhe, Austria, 2 January 1794; DIED: Braunschweig, Germany, 6 December 1864) *German physician & chemist.*

Marx was a docent at the University of Heidelberg in 1814. This was followed by instructing positions at Pestalozzi's Institute in Yverdon (1815-17), the Lyceum in Carlsruhe (1817-19) and the Educational Institute in Nürnberg (1819-23). In 1824, Marx was appointed professor of physics and chemistry at the Collegium Carolinum in Braunschweig, from which he retired in 1847.

REFERENCES: DBA: II 860, 166-169. • Lambrecht & Quenstedt, *Catalogus*, 1938: 283. • Poggendorff: 2, cols. 69-70 & 3, 879. • WBI.

**3255. — German, 1825.**

Geschichte | Der | Crystallkunde | von | Dr. C.M. Marx, | Professor der Physik und



GESCHICHTE DER CRYSTALLKUNDE, 1825

Chemie in Braunschweig. | [rule] | Mit neun schwarzen Kupfertafeln und einer colorierten. | [rule] | Carlsruhe und Baden. | D.R. Marx'sche Buchhandlung. | [rule] | 1825. | Gedruckt bei Friedrich Bieweg und Sohn in Braunschweig.

8°:  $\pi^7$  1-19<sup>8</sup> 206; 165 $\ell$ .; [i]-xiv, [2], [1]-313, [3] p., 10 plates (one folding and colored). PAGE SIZE: 185 x 115 mm.

CONTENTS: [i-ii], Title page, verso blank.; [iii], Dedication to Count von Schmidt-Phiseldeck.; [iv], Blank.; [v-xii], Preface—signed Carl Michael Marx, 16 May 1825.; [xiii]-xiv, "Uebersicht des Inhalts.;" 1, "Geschichte | der | Crystallkunde.;" [2], Quotation from Goethe concerning colors.; [3]-297, Text.; [298]-301, "Rückblick.;" [302]-309, "Zusätze.;" [310]-313, "Namen-Verzeichniß.;" [1 pg], "Berichtigungen.;" [1 pg], "Abbildungen.;" [1 pg], Blank.; [At end], 10 plates (one folding and hand-colored).

VERY RARE. A highly respected work that develops an understanding of concepts in what was then modern crystallography through historical perspective. As a result, the book covers the history of crystallography from ancient times to 1824. The development is told by describing the contributions of the individuals in chronological order. The text is divided into six sections, each representing a specific time period. The first covers the ancient Greek and Roman researches. The others span (2) Albertus Magnus to Robert Boyle, (3) Nicolaus Steno to Johann Henckel, (4) Carl Linné to Jean Baptiste Louis Romé de l'Isle, (5) René Just Haüy to Henry James Brooke, and (6) Abraham Gotthelf Kästner to Friedrich

Mohs. The name index lists about 300 researches, whose contributions are described in the text. The plates illustrate various concepts brought forth in the discussion by reproducing recognizable figures from important crystallographic works.

Facsimile reprint, 1970: Geschichte | ... | Wiesbaden | Dr. Martin Sändig oHG. 8°: [i]-xiv, [2], [1]-313, [2], [1] blank p., 10 plates (one folding and colored). Photographic reprint of the original edition with a modified title page. ISBN 3500220002.

REFERENCES: BL: [726.c.34.]. • Dana's 7th (Bibliography): 77.

### 3256. — German, 1831.

Handbuch der analytische Geometrie, in besonderer Beziehung auf Physik und Krystallographie. Braunschweig, 1831.

8°. VERY SCARCE.

REFERENCES: BL: [no copy listed]. • Poggendorff: 2, 69-70.

### MATHER, William Williams.

### 3257. — English, 1834.

[Contained within an ornate box:] Geology And Mineralogy | Of | New London & Windham Counties.

8°: [1]-36 p., large folding map.

CONTENTS: [1-2], Title page, verso blank.; [Large folding map].; [3]-36, Text.;

RARE. An early topographical study of areas of New York.

REFERENCES: BL: [7107.aaa.34.]. • NUC.



MATHESIUS

MATHESIUS, Johann. (BORN: Rochlitz, Saxony, Germany, 24 June 1504; DIED: St. Joachimsthal, Bohemia, Germany, 7 October 1565) *German theologian.*

Mathesius studied at the Latin School in Nuremberg and in Ingolstadt. He became a friend and disciple of

Luther and became his first biographer. He was minister at Joachimsthal from 1542 until his death. In addition to writing and publishing his sermons, he also wrote many hymns.

REFERENCES: ADB: 20, 586-8. • DBA: I 811, 339-350; II 861, 373-394. • Fischer, Walther., "Johannes Mathesius zu St. Joachimsthal (1504-1565)," *Der Aufschluss*, 11 (1965), p. 267-91. • NDB: 16, 369-70 [by H. Wolf]. • Poggendorff: 2, cols. 81-2. • WBI.

**3258. — German, 1562** [First edition].

Sarepta oder Bergpostill sampt der Iochimssthalischen kurtzen Chroniken. Ioahann Mathesij ... Nürnberg, 1562.

2°:  $\alpha^8$  A-Z<sup>6</sup> a-z<sup>6</sup> Aa-Ii<sup>6</sup> Kk<sup>4</sup>  $\chi^{13}$  (leaves CXCIX-CCIII duplicated).; 355 $\ell$ .; [8], CCCXVIII, XV, 14 $\ell$ . Title in red and black. Ornamental initials and headpieces. VERY RARE.

REFERENCES: BL: [no copy listed]. • Dana's 7th (Bibliography): 77. • Hoover Collection: no. 565. • LKG: III 20. • Wilson, *History of Mineral Collecting*, 1994: 21-2.



SAREPTA ODER BERGPSTILL, 1564

**3259. 2nd edition, 1564:** [In red:] Sarepta | [in black:] Oder | [in red:] Bergpostill | [in black:] Sampt der Jochimssthalischen kurtzen Chroniken. | [in red:] Johann Mathesii. | Auff ein neues mit fleiß übersehen Coragirt | [in black:] vnd gebessert/ mit einem Register der spräch/ so auß | altern vnd newern Testament hieren erklaret | sind/ durch Johann Mathesium | selber. | Psalm. CXLVIII. | [in red:] Berg vnd Thallobet den Herrn. | [in black:] Nürnberg. | [rule] | [in red:] M. D. LXIII.

2°:  $\pi^2$  c<sup>6</sup> A-Z<sup>6</sup> a-z<sup>6</sup> Aa-Ff<sup>6</sup> Gg<sup>4</sup> Hh-Ii<sup>6</sup> Kk<sup>4</sup> Ll-Mm<sup>6</sup> Nn<sup>4</sup> Oo-Pp<sup>6</sup>; 372 $\ell$ .; [xii], 331, [29] $\ell$ . Woodcut word "Bergpostill," with Schwabacher initial and calligraphic

ornament on title; woodcut heraldic device with Greek xylographic text on title verso; woodcut printer's device within elaborate architectural border on last verso (Grimm, *Deutsche Buchdruckersignete des XVI Jahrhunderts*, 310); hatched vignette headpiece, arabesque tailpieces; historiated, arabesque, and hatched vignette initials; historiated separators. Printed tables from 2L1 through 2P5, printed music at 2G4 and 2P6. Title printed in red and black; fraktur type, shoulder notes.

RARE. Second edition of this famous collection of mining sermons by Luther's first biographer. This collection of 16 of the author's sermons on mining topics, ranging in theme from the history and mechanics of mining to the various metals, minerals, and precious stones (gold, silver, copper, iron, lead, bismuth, boron, alum, saltpeter, etc.) that are mined to various smelting processes (including that of the Old Testament miner Malachi in Jeremiah). Other subjects include the proper amount of precious metal to share with God, the making of coins and glass, the role of the father in the family household, the Phillipian miners in ancient Greece, Saint Paul's Epistles to the Phillipians, and the uses of various metals for religious purposes. In each chapter, Mathesius takes great pains to explain the relationship between the material discussed and God, the church, etc.

After the sermons, there are four additional chapters. Two of these are devoted to Protestant miner's hymns and include fine examples of printed music, along with complete lyrics and notes. Another is a commentary on the 133rd psalm.

There are three extensive printed tables. The first presents a chronicle of Joachimsthal from 1516 to 1563 and includes blank forms for the following 16 years. The other two provide information on production of the local mines in weight and in value. Also included is a list of the biblical passages referenced throughout the text, in biblical order, with page references for this text.

Some scholars have argued that the second sermon contains the first appearance in print of the famous German proverb, "Der apffel felt nicht weyt vom baum/ vnd das kalb gereth gewoniglich nach der kue" (The apple does not fall far from the tree/ and the calf usually resembles the cow), found on the thirteenth leaf. The title word, Sarepta, refers to a biblical mining town in Lebanon, the subject of the first chapter.

REFERENCES: BL: [no copy listed]. • Ferchl: 345. • *Freilich Sale Catalog*: no. 381 [title page reproduced]. • Honeyman Sale: 5:2172. • Hoover Collection: no. 565. • LKG: III 20. • VD16: M-1557.

**3260. 3rd edition, 1571:** Sarepta | Darinn von allerley Bergwerckt | Vnd Metallen/ Was ir eygenschaft vnd natur/ vnd | wie sie zu nutz vnd gut gemacht/ guter bericht gegeben. Mit tröstlicher | vnd lehrhafter erklärung aller spruch/ so in Heiliger Schrift von | Metall reden/ Vnd wie der Heilg Geist inn Metallen | vnd Bergarbeit die Artickel vnsers Christli= | chen glaubens fürgebildet. | Auff ein neues mit fleiß durchsehen/ corrigirt/ vnd | gebessert mit einem Register/ Was für spruch auß altem | vnd newem Testament hierinn erklaret/ vnd an wel= | chem blat ein jeder zufinden ist. | Sampt der Jochimssthal= | schen kurtzen Chroniken. | Durch M. Johann Mathesium Pfarrer in S. | Jochimsthal/ selber für seinem seligen ende verfertigt. | Psalm. CXLVIII. | Berg vnd Thal lobet den Herren. | Mit Römischer Keyserlicher Maiestat Freyheit/ nicht | nachzudrucken auff sechs jar. | Gedruckt zu Nürnberg bey Dietrich Gerlag. | M. D. LXXI.

2°:  $\pi^1$  (6 -)(6) A-Z<sup>6</sup> a-o<sup>6</sup> p<sup>4</sup> q-t<sup>6</sup> v-y<sup>4</sup>; 268 $\ell$ .; [6], CCXXXVII, [25] $\ell$ .

VERY SCARCE. "Chronica der keyserlichen freyen Bergkstadt Sanct Jochimsthal, der zuuor die Conrads Brun genent war": f. [CCXXXVIII]-[CCL]. The "Register" is absent in this and all other known copies.

REFERENCES: BL: [no copy listed].

**3261. 4th edition, 1578:** Bergpostilla, oder Sarepta, darinn

## MAWE

von allerley Bergwerck und Metallen, was ir Eygenschaft und Natur, und wie sie zu Nutz und Gut gemacht, guter Bericht gegeben wird. Nürnberg, [Katharina Gerlach], 1578.

2<sup>o</sup>: )<sup>6</sup>  $\chi^6$  A-Ss<sup>6</sup>; ?? $\ell$ .; [24] p., ff. 237, [58] p.

VERY SCARCE. This edition includes the "Chronica der Keyserlichen freyen Bergstadt Sanct Jochimssthal", current up to 1578. Honeyman 2172, Hoover 565.

REFERENCES: BL: [no copy listed]. • Ferchl: 345. • *Freilich Sale Catalog*: no. 382. • Honeyman Sale: 5:2172. • Hoover Collection: no. 565. • LKG: III 20. • Shaaber, *Sixteenth Century Imprints*, 1976: M-194. • VD16: M-1559. • Wellcome Catalog (Books): 1, no. 4123.

**3262. 1588:** [In black:] Bergpostilla/ | Oder Schulze, | [in red:] Sarepta | Darinn von allerley Bergwerck= | werck und Metallen/ was jr eigenschaft vnd natur/ | [in black:] vnd wie sie zu nutz vnd gut gemacht/ guter bericht gegeben wird. Mit | trostlicher vnd lehrhafter erklerung aller spruch/ so inn heilige Schrift | von Metal reden/ vnd wie der heilig Geist in Metallen vnd | Bergarbeit die Artickel vnsers Christlichen | glaubens fürgebildet. | [in red:] Jegund mit fleisz widerumb durch= | sehen/ corrigirt/ vnd gemehret mit einem neuen Re= | [in black:] gifter/ vnd kurtzen Summarien/ in welchen kurtzlich angezeigt | wird/ was in einer jeden Predig gehandelt/ vnd was für spruch auß | altem vnd neuem Testament darinnen fürnem= | lich erkerlet werden &c. | Sampt der Jochimsthalischen kurtzen Chro= | niken/ biß auff das 1578. jar. | [in red:] Durch M. Johann Mathesium Pfarrer | [in black:] inn S. Joachims Thal selber für seinem seli= | gen ende verfertigt. | Psalm. CXLVIII. | Berg vnd Thal lobet den Herrn. | [in red:] Mit Kôm. Kay. Maie. Freyheit nit nachzudrucken. | [in black:] Nürnberg. | [in red, rule] | [in red:] M D LXXXVIII.

2<sup>o</sup>: )<sup>5</sup> i<sup>6</sup> A-Rr<sup>6</sup> Ss<sup>5</sup>; 254 $\ell$ .; [24] p., 1-215 $\ell$ ., [54] p. Title in red and black. PAGE SIZE: 324 x 202 mm. VERY SCARCE.

CONTENTS: [2 pgs], Title page, verso blank.; [8 pgs], "Vorrede"—signed Johann Mathesius 1562.; [9 pgs], "Ein sehr nützliches Register/ ..."; [3 pgs], "Kurtzer inhalt und Summarien/ | was in einer jeden Predig in diser [!] Berg= | postill gehandelt wird."; Folios 1-205, Text.; Folio 206r, Sectional title page, "Chronica | Der Freyen Bergstadt inn | ..."; Folios 206v-208v, Vorrede.; Folios 209r-215v, "Der CXXXIII Psalm/ ..."; [1 pg], Sectional title page, "Chronica der Kayserlichen | freyen Bergstatt/ Hanet Jo= | ..."; [17 pgs], Text.; [1 pg], "Folgen die Stollen/ so mehr denn ..."; [1 pg], Sectional title page, "Mlichs Jar ein iede Zeth angan= | gen/ vnd an welchem Gebirge sie ge= | ..."; [1 pg], Blank.; [18 pgs], Text.; [2 pgs], "Ein Christlich lied für gemei= | ne wolfart ..." [At end:] "Gedruckt zu Nürnberg | bey Katharina Gerlachin."

REFERENCES: BL: [no copy listed].

**3263. 1618:** [Contained within a double rule box:] Sarepta, | Darin von allerley Bergwerck | vnd Metallen/ Was ihr eigenschaft vnd Na= | tur/ vnd wie sie zu nutz vnd gut gemacht/ | guter beriet gegeben/ | Mit Tröstlicher vnd lehrhafter erklärang al= | ler Spruch/ so in heiliger Schrift von Metall reden/ | vnd wie der H. Geist in Metallen vnd Bergargeit die Artickel | vusers Christlichen Glaubens fürgebildet. | Auff ein neues mit fleis durchsehen/ corrigirt/ vnd ge= | bessert mit einem Register/ Was füSpruch aus Altem vnd Newem | Testament hierinn erkläret/ vnd an welchem Blat ein jeder | zu finden ist. | Sampt der Jochimsthalischen kurtzen | Chroniten. | Durch | M. Johann. Mathesium, | Pfarrern in S. Jochimsthal/ selber für sei= | nem seligen Ende verfertigt. | Psalm. 148. | Berg vnd Thal lobet den Dennen. | Gedruckt zu Leipzig bey Valentins am Ende Erben. | In vrelegung Johan Börners/ Buchhandl. | [rule] | Anno M. DC. XIII.

2<sup>o</sup>: VERY SCARCE.

REFERENCES: BL: [no copy listed]. • LKG: III 20.

**3264. 1620:** Sarepta darin von allerley Bergwerck vnd Metallen was jhr Eigenschaft vnd Natur vnd wie sie [zu] Nutz vnd gut Gemacht guter Bericht gegeben: mit trostlicher vnd lehrhafter Erklärung aller Spruch so in heiliger Schrift von Metall reden vnd wie der H. Geist in Metallen vnd Bergarbeit die Artickel unsers Christlichen Glaubens fürgebildet: sampt der Jochimsthalischen kurtzen Chroniken. an welchem Blat ein jeder zu finden ist" 1620.

4<sup>o</sup>: [34], 1043, [184] p.

VERY SCARCE. Includes: Chronica der freyen Bergstadt in S. Joachimsthal ... sampt einer Auslegung des CXXXIII Psalm. Includes side-notes.

REFERENCES: BL: [no copy listed].

**3265. 1620:** [Contained within a double rule box:] [In red:] Sarepta, | Darin von allerley Bergwerck | [in black:] vnd Metallen/ Was ihr eigenschaft vnd Na= | tur/ vnd wie sie zu nutz vnd gut gemacht/ | guter beriet gegeben/ | [in red:] Mit Tröstlicher vnd lehrhafter erklärang al= | [in black:] ler Spruch/ so in heiliger Schrift von Metall reden/ | vnd wie der H. Geist in Metallen vnd Bergargeit die Artickel | vusers Christlichen Glaubens fürgebildet. | [in red:] Auff ein neues mit fleis durchsehen/ corrigirt/ vnd ge= | [in black:] bessert mit einem Register/ Was füSpruch aus Altem vnd Newem | Testament hierinn erkläret/ vnd an welchem Blat ein jeder | zu finden ist. | [in red:] Sampt der Jochimsthalischen kurtzen | [in black:] Chroniten. | Durch | [in red:] M. Johann. Mathesium, | [in black:] Pfarrern in S. Jochimsthal/ selber für sei= | nem seligen Ende verfertigt. | Psalm. 148. | [in red:] Berg vnd Thal lobet den Dennen. | [in black:] Gedruckt zu Leipzig bey Valentins am Ende Erben. | In vrelegung Johan Börners/ Buchhandl. | [rule] | [in red:] Anno M. DC. XIII.

4<sup>o</sup>: [36], 1043 p. Title in red and black. VERY SCARCE.

REFERENCES: BL: [no copy listed].

**3266. 6th edition, 1679:** Berg=Postilla | Oder | Sarepta | Darinnen von allerley Bergwerck und Metallen/ | was ihre Eigenschaft und Natur/ und wie sie zu Nutz | und gut gemacht/ guter Bericht gegeben/ | Mit lehrhafter und trostlicher Erklärung aller Sprü= | che/ so in H. Schrift von Metall reden/ und wie der | H. Geist in Metallen und Bergarbeit die Articul un= | fers Christlichen Glaubens fürgebildet/ | Auuffs neue mit allem Fleiß aus unsterschiedenen Editionibus durchse= | hen/ corrigiret, mit einer Vorrede von dem Autore und dessen Schrift= | ten/ annotation der versicul bey den Biblischen Sprüchen/ welche aus dem A. und | N. T. hierinnen angeführt/ und mit zwey Registern vermehret/ sampt dem | Chronico der Freyen Bergstadt in S. Joachimsthal/ und einer | Predigt über den 133. Psalm/ | Wie solche vieland | M. Johannes Mathesius, Pfarrer | in S. Joachimsthal für seinen seligen Ende | Anno 1562. verfertigt hat/ | Ps. 148. v. 9. | Berg und Thal lobet den Herrn. | eCCe fLorent VaLLes Cvm eVangeLlo. | v. Berg=Postill. p. 530. | [rule] | Anietzo auuffs neue gedruckt und verlegt zu Freyberg | Von Zacharias Beckern. | Anno M. DC. LXXIX.

4<sup>o</sup>: VERY SCARCE.

REFERENCES: BL: [no copy listed]. • LKG: III 20. • VD17: ????????????

**MAWE, John.** (BORN: Derbyshire, England, 1764; DIED: London, England, 26 October 1829) *English mining engineer, mineral dealer & mineralogist.*

Mawe spent his early life at sea as a merchant marine, but gave the life up and began dealing in minerals. Mawe was commissioned to collect British minerals for the King of Portugal. At the invitation of the King he made an extensive tour of Brazil, but was for a short time imprisoned at Montevideo. After his death, his mineral business and stock were acquired by JAMES TENNANT. He was a member of the Geological Society of London and the Mineralogical Society of Jena.

REFERENCES: Allibone, *Dictionary of English Literature*, 1859-71. • *Annual Register*: 1829. • BBA: I 754, 150-159. •

*Biographie Universelle*. • *Bull. Sci. et Geol., Paris* [obituary]. • DNB: 13, 110-1 [by B.B. Woodward]. • Embry, P.G. and R.F. Symes, *Minerals of Cornwall and Devon*. London, British Museum (NH) and Mineralogical Record Inc., Tucson, Az., 1987. [1]-154 p. • Anonymous, "The colourful career of John Mawe," *The Gemm (or The Gemmologist)*, 23 (1954), no. 278, 157-62 & 24 (1955), no. 284, 49-50 [CHECK ON THIS!!!]. • Poggendorff: 2, col. 89. • Sarjeant, *Geologists*, 1980: 3, 1677-8. • Sinkankas, *Gemology Bibliography*, 1993: 2, 682-6. • Torrens, H.S., "The early life and geological work of John Mawe (1766-1829) and a note on his travels in Brazil," *Bulletin of the Peak District Mines Historical Society*, 11 (1993), no. 6, 267-71. • Watt, *Bibliotheca Britannica*, 1824. • WBI. • Wilson, *History of Mineral Collecting*, 1994: 182.

### Mineralogy of Derbyshire

#### 3267. — English, 1802.

The | Mineralogy | Of | Derbyshire: | With | A Description Of The Most Interesting | Mines | In The | North of England, in Scotland, and in Wales; | And An Analysis Of Mr. William's Work, | Intitled "The Mineral Kingdom." | [tapered rule] Subjoined Is | A Glossary of the Terms and Phrases used by | Miners In Derbyshire. | [rule] By John Mawe. | [rule] London: | Printed and Sold by William Phillips, George Yard, Lombard-Street; | Sold also by J. White Fleet-street, G. & W. Nunn, New Bend-street, | and by John Drury, in Derby. | 1802.

8°: xv, 211 p., 3 plates, one map.

VERY SCARCE. The first book by this noted mineralogist. Mawe was commissioned by the King of Spain to make a survey of the Derbyshire mines in England, so that "an exact representation" of them, showing specimens from each stratum, etc., could be prepared for the King's natural history cabinet. The three plates show geological cross-sections, while the map is of Derbyshire and shows the locations of the various mines.

**Variant issue, 1802:** The Mineralogy and Geology of Derbyshire, describing the Productions of the Mines, and the Position of the Strata. To which is added a Description of the most interesting Mines in the North of England, Scotland, and Wales: and an analysis of Mr. William's Work, intitled The Mineral Kingdom. Subjoined is a Glossary of Terms and Phrases used by Miners. 8°: xv, 211 p., 3 plates, one map.

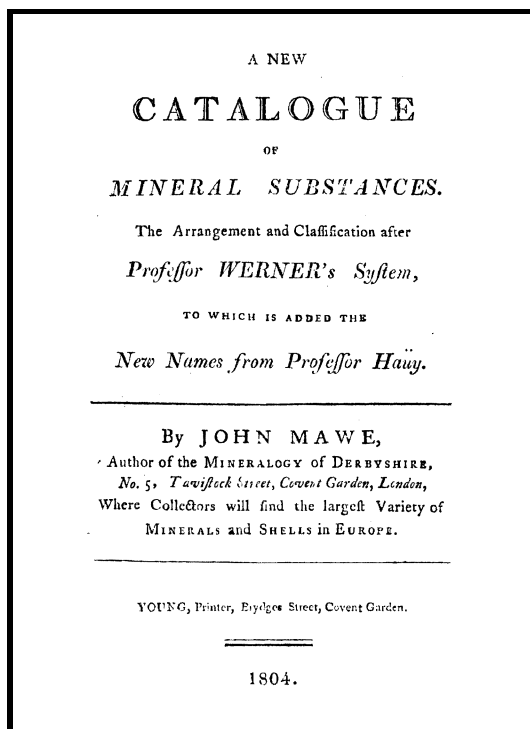
Extremely rare. This entry, taken from Quaritch Catalog no. 724 (1954), item 410, is "except for the title page, identical in all respects with the *Mineralogy of Derbyshire* (London, 1802)." Not seen and no copy traced.

REFERENCES: BL: [B.375.(2.)]. • BMC: 3, 1271. • LKG: XIV 450. • NUC: 371, 133-6 [NM 0362816].

### Catalogue

#### 3268. — English, 1804.

A New | Catalogue | Of | Mineral Substances. | The Arrangement and Classification after | Professor Werner's System, | To Which Is Added The | New Names from Professor Haüy. | [rule] By John Mawe, | Author of the Mineralogy



NEW CATALOGUE OF MINERAL SUBSTANCES. 1804

of Derbyshire, | No. 5, Tavistock Street, Covent Garden, London, | Where Collectors will find the largest Variety of | Minerals and Shells in Europe. | [rule] Young, Printer, Brydges Street, Covent Garden. | [double rule] 1804. London: Young, printer, 1804.

12°: [4] p., 1-34ℓ., [2] p. Leaves of text numbered on the recto side only. PAGE SIZE: 156 x 96 mm.

CONTENTS: [2 pgs], Title page, verso "Advertisement."; [2 pgs], "Index."; ℓ. 1-34, Text.; [1 pg], "Errata."; [1 pg], Blank.

VERY RARE. A catalog describing a portion of the 20,000 mineral specimens, Mawe claims to have for sale at his Covent Garden shop. Sources for the material is worldwide and includes Russia, Sweden, Denmark, Norway, Austria, Switzerland, Spain, Italy, France, the East Indies, and Indonesia. The text of the catalog is divided by primary element including antimony, arsenic, barite, bismuth, boracite, cinnabar, cobalt, copper, diamond, galena, gold, iron, mercury, etc. It was issued immediately prior to Mawe leaving for an extended adventure in the Brazilian frontier.

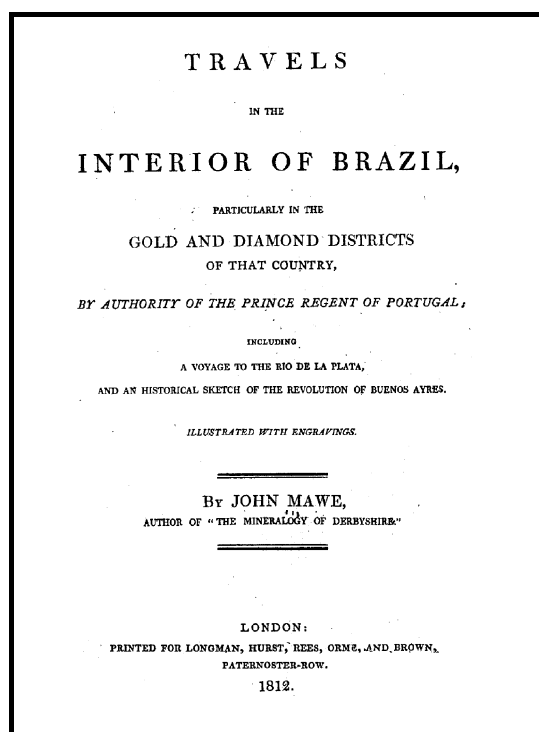
REFERENCES: NUC: 371, 133-6 [NM 0362817]. • Wilson, *History of Mineral Collecting*, 1994: 83-4.

### Travels in Brazil

#### 3269. — English, 1812 [First edition].

Travels | In The | Interior Of Brazil, | Particularly In The | Gold And Diamond Districts | Of That Country, | By Authority Of The Prince Regent





## TRAVELS IN THE INTERIOR OF BRAZIL, 1812

Of Portugal; | Including | A Voyage To The Rio De La Plata, | And An Historical Sketch Of The Revolution Of Buenos Ayres. | Illustrated With Engravings. | [double rule] | By John Mawe, | Author Of "The Mineralogy Of Derbyshire." | [double rule] | London: | Printed For Longman, Hurst, Rees, Orme, and Brown, | Paternoster-Row. | 1812.

4°: A-Z<sup>4</sup> 2A-2Z<sup>4</sup> 3A<sup>4</sup>; 188ℓ.; [i]-vii, [1], [1]-366, [2] p., 9 plates (one colored). PAGE SIZE: 266 x 202 mm.

CONTENTS: [i-ii], Title page, verso "Strahan and Preston, | Printers-Street, London."; [iii]-iv, Dedication to the Prince Regent of Portugal, signed John Mawe.; [v]-viii, "Contents."; [1 page], Blank.; [1]-335, Text.; [336], Blank.; 337-364, "Appendix."; 365-366, "Explanation of the Plate of Crystals of Diamond, Topaz, and Tourmaline."; [1 pg], "Directions To The Binder."; [1 pg], "Mineralogy." [=advertisement for Mawe].

VERY SCARCE. A popular account of the geography, people and geology of Brazil. At the request of the Portuguese sovereign, Mawe made a two year expedition into the Portuguese territory of Brazil. This is the first account, in English, of the mineral wealth of the region. The plates scattered throughout the volume picture diamonds and gold being mined, a map of Mawe's travels, and machinery for mining diamonds, crystal drawings of diamond, topaz and tourmaline, minerals collected by the author, and various snail shells.

Portuguese, 1944: Viagens ao interior do Brasil. John

Mawe ... Rio de Janeiro, 1944. [BL shelfmark, W14/5964].

REFERENCES: BL: [982.i.24.]. • BMC: 3, 1271. • LKG: XIV 925\*. • Sinkankas, *Gemology Bibliography*, 1993: no. 4270.

**3270. American issue, 1816:** Travels | In The | Interior Of Brazil, | Particularly In | The Gold And Diamond Districts | Of That Country, | By Authority Of The Regent Of Portugal; | Including | A Voyage To The Rio De La Plata, | And An | Historical Sketch Of The Revolution Of Buenos Ayres. | Illustrated With Five Engravings. | [tapered rule] | By John Mawe, | Author Of "The Mineralogy Of Derbyshire." | [tapered rule] | Philadelphia, | Published By M. Carey, No. 121, Chestnut Street, | And Wells And Lilly, Boston. | 1816.

4°: π<sup>4</sup> B-Aaa<sup>4</sup>; 188ℓ.; [i]-vii, [8]-373, [3] p., frontispiece, 4 plates (pp. 145, 229, 284 and end). PAGE SIZE: 215 x 130 mm. VERY SCARCE.

CONTENTS: [i-ii], Title page, verso blank.; [iii]-iv, Dedication to the Prince Regent of Portugal, signed John Mawe.; [v]-vii, "Contents."; [8], Blank.; [9]-344, Text.; [345]-373, "Appendix."; [2 pgs], "Explanation of the Plates of Crystals of Diamond, | Topaz, and Tourmaline."; [1 pg], Pasted on a slip of paper, "Directions to the Binder."

REFERENCES: BL: [10481.d.18.].

**3271. 2nd edition, 1823:** Travels | In The | Interior Of Brazil; | With Notices On Its | Climate, Agriculture, Commerce, Population, | Mines, Manners, And Customs: | And | A Particular Account | Of | The Gold And Diamond Districts. | Including | A Voyage To The Rio De La Plata. | By | John Mawe. | [double rule] | Second Edition. | [double rule] | Illustrated With Colored Plates. | [ornate rule] | London: | Printed For Longman, Hurst, Rees, Orme, And Brown, | Paternoster Row; | And Sold By The Author, 149, Strand. | 1823.

8°: viii, 493 p., 5 hand-colored plates, one map (showing the author's route).

RARE. This second edition, first issued in 1822 and again in 1823, was revised by Mawe from documents furnished by the Count de Funchal and A.F.J. Marreco.

REFERENCES: BL: [1050.i.4.]. • BMC: 3, 1271. • Kress Catalogue: C.924. • LKG: XIV 925\*. • Sabin, *Dictionary*, 1868-1936: no. 46992.

**3272. 1825:** Travels in the Gold and Diamond Districts of Brazil. London, Printed for Longman, Rees, Orme, Brown, and Green, 1825.

8°: 7 plates (6 hand-colored).

VERY SCARCE. "A New Edition."

REFERENCES: Borba, *Bibliographia Brasiliana*, 1983. • Freilich Sale Catalog: no. 388. • Sinkankas, *Gemology Bibliography*, 1993: [no copy listed].

**3273. German transl., 1816:** Travels in the Interior of Brazil [German Translation.] Leipzig, 1816.

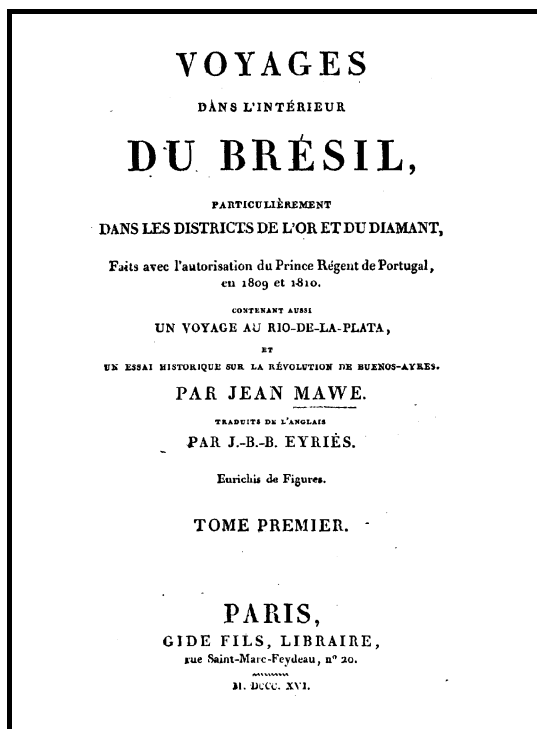
8°:

VERY SCARCE. Translation by K.G. Kühn [????] of *Travels in Brazil* (1st ed., London, 1812).

**3274. French transl., 1816:** Voyages | Dans L'Intérieur | Du Brésil, | Particulièrement | Dans Les Districts De L'Or Et Du Diamant, | Faites avec l'autorisation du Prince Régent de Portugal, | en 1809 et 1810. | Conenant Aussi Un Voyage Au Rio-De-La-Plata, | Et | Un Essai Historique Sur La Révolution de Buenos-Ayres. | Par Jean Mawe. | Traduits De L'Anglais | Par J.-B.-B. Eyriès. | Eurichis de Figures. | Tome Premier. | Paris, | Gide Fils, Libraire, | rue Saint-Marc-Feydeau, n° 20. | [wavy rule] | M. DCCC. XVI.

2 vols. [VOL 1] 8°: π<sup>8</sup> b<sup>8</sup> c<sup>5</sup> 1-22<sup>8</sup> 23<sup>3</sup>; 200ℓ.; [i]-xlii, [1]-358 p., frontispiece, one plate (folding). [VOL 2] 8°: π<sup>8</sup> 2-24<sup>8</sup>; 192ℓ.; [1]-381, [3] p., frontispiece. PAGE SIZE: 202 x 120 mm. VERY SCARCE.

CONTENTS: [Vol 1] [Frontispiece.]; [i-ii], Half title page, "Voyages | Dans L'Intérieur | Du Brésil," verso "A. Egron, Imprimeur."; [iii-iv], Title page, verso blank.; [v]-xlii, "Discours Préliminaire."; [1]-356, Text.; [357]-358,



VOYAGES DANS L'INTÉRIEUR DU BRÉSIL, 1816



VIAGGIO NELL' INTERNO DE BRASILE, 1817

"Table Des Chapitres."; [At end], One folding plate.

[Vol 2] [Frontispiece].; [1-2], Half title page, "Voyages | Dans L'Intérieur | Du Brésil," verso "A. Egron, Imprimeur."; [3-4], Title page, verso blank.; [5]-299, Text.; [300], Blank.; [301], "Description | Des | Iles Açores."; [302], Blank.; [303]-362, Text, by Jean Gustave Hebbe.; [363]-381, "Table Des Chapitres."; [1 pg], Blank.; [1 pg], "Erratum."; [1 pg], Blank.

REFERENCES: *Freilich Sale Catalog*: no. 384. • Sinkankas, *Gemology Bibliography*, 1993: no. 4273.

**3275. Italian transl., 1817:** Viaggio | Nell' Interno De Brasile | E Particolarmente | nei Distretti dell' Oro e dei Diamanti | Patto Nell 1809-10 | Con Permessio Speciale | del Principe Reggente del Portogallo | Da Gio. Mawe | Coll' Aggiunte Di Un' Appendice | Tradotto Dall' Inglese | dall' Ab. Lorenzo Nesi | con tavole in rame colorate | [rule] | Tomo I [-II] | Milano | Dalla Tipografia Sonzogno e Comp. | 1817.

2 vols. [VOL 1] 12°: π<sup>11</sup> 1-1412; 179ℓ.; [i]-xxi, [1], [1]-334, [2] p., 6 plates (4 hand-colored); [VOL 2] 12°: 1-1112 1213; 146ℓ.; [1]-291, [1] p., 4 plates (2 hand-colored). PAGE SIZE: 182 x 110 mm.

CONTENTS: [Vol 1] [i-ii], Half title page, "Raccolta | De' Viaggi," verso blank.; [iii-iv], Title page, verso blank.; [v-vii], Dedication.; [viii], Blank.; ix-xxi, "Prefazione | Del Traduttore Italiano."; [1 pg], Blank.; 1-330, Text.; 331-334, "Indice | Delle Materie."; [1 pg], "Indice | Delle Tavole."; [1 pg], Blank.

[Vol 2] [1-2], Half title page, "Raccolta | De' Viaggi | ... | Tomo XL," verso blank.; [3-4], Title page, verso blank.; 5-289, Text.; 290-291, "Indice | Delle Materie."; [1 pg], "Indice | Delle Tavole."

RARE. First eyewitness account of the gold and diamond mines in Brazil. It was originally published in London, 1812, with the title *Travels in the interior of Brazil...* This translation includes a plate which did not appear in the original or any other edition, depicting a

woman of Sao Paulo in "clothes which do not appear to be a faithful reproduction" (Borba). Other plates show the washing of gold, a topez mine, machines used in mining, the appearance of gold or diamond-bearing ore, the crystalline structure of diamonds, topaz and tourmaline, and Brazilian shells. The author also included a map of his route from Rio de Janeiro to Canto-Gallo, Villa-Rica, and Tejuco. Borba mentions that the view of the mining camp at Jaragua is the first landscape known to show the interior of Sao Paulo.

Mawe seems to have spent many of his early years at sea. In the late 18th c. he collected minerals in England for the King of Spain. When war broke out between England and Spain in 1804, he was detained at Cadiz and then again at Montevideo. He was only released after Beresford captured Montevideo, and soon afterward began his journey to Rio de Janeiro and then into Minas Geraes. After his return to England in 1811, he opened a shop in the Strand and wrote books on mineralogy.

REFERENCES: Borba, *Bibliographia Brasiliana*, 1983: 2, 542. • *Freilich Sale Catalog*: no. 385. • Sabin, *Dictionary*, 1868-1936: no. 46994.

**3276. Swedish transl., 1819:** Reiser | til | det Indre af Brasilien, | især til de derværende | Guld og Diamantdistricter, | foretagne | isølge Befaling | af | Prinds=Regenten af Portugal | ved | John Mawe. | [tapered rule] | Samt | en | Reise til La Plata=Floden | med | historiske Beretninger | om den sidste Revolution i Buenos=Ayres. | [tapered rule] | Oversat | efter | Zimmermanns tydske, med oplysende Anmærk= | ninger forsynede Udgaave, | ved | R.T. Bruun. | [tapered rule] | Første [-Anden] Deel. | [ornate rule] | Kjøbenhavn 1819. | Forlagt af Boghandler A. Goldin. | Trykt hos C. Græbe.

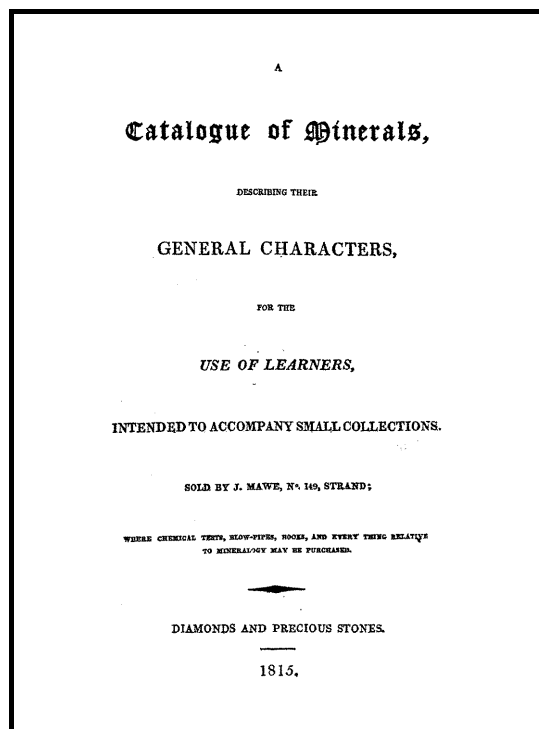
2 vols. [VOL 1] π<sup>5</sup> A-P8; 125ℓ.; [i]-x, [1]-240 p. [VOL 2] Q-Nn<sup>8</sup> Oo<sup>4</sup>; 171ℓ.; [241]-581, [1] p. PAGE SIZE: 166 x 100 mm. RARE.

CONTENTS: [Vol 1] [i-ii], Title page, verso blank.; [iii]-

vi, "Den tydske Udgivers Forerindring."—signed Zimmermann.; [vii]-x, "Indhold.;" [1], Sectional title page, "Reise til det Indre af Brasilien.;" [2], Blank.; [3]-240, Text.

[Vol 2] [241-242], Title page, verso blank.; [243]-581, Text.; [1 pg], Blank.

REFERENCES: BL. • NUC. • Sinkankas, *Gemology Bibliography*, 1993: [no copy listed].



CATALOGUE OF MINERALS, 1815

### Catalogue of Minerals

**3277. — English, 1815** [First edition].

A | Catalogue of Minerals, | Describing Their | General Characters, | For The | Use Of Learners, | Intended To Accompany Small Collections. | Sold By J. Mawe, N° 149, Strand; | Where Chemical Tests, Blow-Pipes, Boos, And Every Thing Relative | To Mineralogy May Be Purchased. | [tapered rule] | Diamonds And Precious Stones. | [short rule] | 1815.

8°: [i]-iv, [1]-?? PAGE SIZE: 164 x 98 mm.

CONTENTS: [i]-ii, Title page, verso blank.; [iii]-iv, "Preface.;" [1]-??, Text.

VERY SCARCE. Always the businessman, Mawe knew that he had to increase his sale of mineral collections, he had to educate his customers about mineralogy. To facilitate this premise, he prepared several small works that explained basic terminology and concepts about mineralogy and geology. Mawe also offered classes in mineralogical science on the premises of his establishment in Soho. A *Descriptive*

*Catalogue of Minerals* (1st ed., 1815) is one of these small texts. It begins by mentioning various collections of minerals for sale at Mawe's shop. The text then explains the use and technique of the blow-pipe as well as various terminology that the beginner will encounter. Concluding the introduction is a description of the lapidary's apparatus for creating gemstones. The main text is a descriptive catalog of various minerals species the collector can expect to encounter, and all presumably available for sale in Mawe's shop. Descriptions include localities, crystal forms, chemical makeup, etc. Appendices list new mineral species and various types of rocks.

REFERENCES: BL: [7105.aa.37.]. • NUC: **371**, 133-6 [NM 0362799].

**3278. 2nd edition, 1816:** "A knowledge of our Subterranean Wealth would be the means of furnishing greater Opulence | to this Country than the acquisition of the Mines of Mexico or Peru." | [double rule] | A | Descriptive Catalogue | of | Minerals, | Intended | For The Use Of Students; | By Which They May | Arrange The Specimens They Collect: | [double rule] | Also, The Catalogue Accompanying | Portable Collections. | Sold by J. Mawe, No. 119, Strand, | [...2 lines of titles and memberships...] | [double rule] | Second Edition. | [tapered rule] | To Which Is Added, | The Method Of Examining Minerals By The New | Invented Blow-Pipe; | And, | A Description Of The Lapidary's Apparatus, | Showing the Modes of cutting, polishing, slitting, and engraving | Precious Stones, Agates, Jasper, &c. | [tapered rule] | London: | Printed And Sold By The Author, | and by | Longman, Hurst, Rees, Orme, And Brown, | Paternoster Row. | [rule] | MDCCCXVI.

8°: viii, \*ix-\*x, ix-xiv, 94, [6] p., frontispiece.

VERY SCARCE. Second edition of Mawe's catalogue of minerals. Mawe was a practical mineralogist, who made a tour of most of the mines in England and Scotland, collecting minerals for the cabinet of the king of Spain. During an adventurous voyage to Spain and Montevideo, he was given special permission to visit the diamond mines of Minas Geraes in Brazil. On his return to London, he he opened a mineralogical shop in the Strand.

REFERENCES: BL: [7104.aaa.29.]. • *Freilich Sale Catalog*: no. 383. • NUC: **371**, 133-6 [NM 0362800].

**3279. 3rd edition, 1818:** A New | Descriptive Catalogue | Of | Minerals, | Consisting Of | More Varieties Than Heretofore Published, | And Intended For | The Use of Students, | With Which They May | Arrange The Specimens They Collect | [double rule] | By J. Mawe, | [...5 lines of titles and memberships...] | [double rule] | Third Edition, | Entirely re-written, and generally following the System of Werner, | With An | Explanation Of Peculiar Phrases, | And A | Description Of The Blow-Pipe And Lapidaries' | Apparatus. | [tapered rule] | London: | Printed For And Sold By The Author, | 149, Strand; | And Longman, Hurst, Rees, Orme, And Brown, | Paternoster-Row. | [short rule] | 1818.

8°: a<sup>6</sup> b<sup>4</sup> B-I<sup>6</sup>; 59ℓ.; [i]-xix, [1], [1]-2, \*2-\*3, 3-96 p., frontispiece ("New invented Lapidaries apparatus for sitting & polishing."). PAGE SIZE: 180 x 112 mm.

CONTENTS: [i]-ii, Title page, verso "Barnard And Farley | ..."; [iii]-vii, "Preface.;" [viii], "Collections Of Minerals." [=collections for sale]; [ix]-x, "Explanation | Of The | Blow-Pipe.;" [xi], "Explanation | Of | Terms and Peculiar Phrases.;" xii, "The | Lapidaries' Apparatus.;" [xiii]-xix, "Contents.;" [1 pg], "Errata.;" [1]-84, Text.; [85]-86, "Appendix. | Additional Species, | and | New Substances.;" 87-96, "Rocks. | This Part Belongs To The Science Of Geology."

SCARCE. Always the businessman, Mawe knew that he had to increase his sale of mineral collections, he had

to teach his customers about mineralogy. In order to facilitate this premise, he prepared several small works that explained basic terminology and concepts about mineralogy and geology. Mawe also offered classes in mineralogical science on the premises of his establishment in Soho. *A Descriptive Catalogue of Minerals* (1st ed., 1815) is one of these small texts. It begins by mentioning various collections of minerals for sale at Mawe's shop. The text then explains the use and technique of the blow-pipe as well as various terminology that the beginner will encounter. Concluding the introduction is a description of the lapidary's apparatus for creating gemstones. The main text is a concise descriptive catalog of various mineral species the collector can expect to encounter, and all presumably available for sale in Mawe's shop. Descriptions include localities, crystal forms, chemical makeup, etc. Appendices list new mineral species and various types of rocks.

REFERENCES: BL: [973.a.25]. • NUC: 371, 133-6 [NM 0362818].

**3280. 4th edition, issue A, 1821:** New | Descriptive Catalogue | of | Minerals; | with | Diagrams Of Their Simple Forms: | Intended for the | Use Of Students, | in | The Classification Of Minerals, | And The | Arrangement of Collections. | [ornate rule] | By John Mawe. | [...5 lines of titles and memberships...] | The Fourth Edition. | Entirely re-written, and considerably enlarged. | [ornate rule] | London: | Printed For And Sold By The Author, 149, Strand; And Longman, | Hurst, Rees, Orme, and Brown, Paternoster-Row. | 1821.

8°:  $\pi^9$  b<sup>2</sup> B-M<sup>8</sup> N<sup>2</sup>; 100*ℓ*.; [i]-xx, [1]-178, 2 p. VERY SCARCE.

CONTENTS: [i-ii], Half title page, "Descriptive Catalogue," verso blank; [iii-iv], Title page, verso "[tapered rule] | W. McDowall, Printer, Pemberton Row, | Gough Square."; [v]-vii, "Preface."; [ix]-xiv, "Simple Forms."; [xv]-xviii, "A | Vocabulary, | containing | an explanation of the terms commonly used | in mineralogy."; [xix]-xx, "Contents."; [1]-160, Text.; [161]-166, "Appendix."; [167]-178, "Index."; [2 pgs], Author's list of books in print.

REFERENCES: BL: [972.e.35]. • NUC: 371, 133-6 [NM 0362819].

**3281. 4th edition, issue B, 1823:** New | Descriptive Catalogue | of | Minerals; | with | Diagrams Of Their Simple Forms: | Intended for the | Use Of Students, | in | The Classification Of Minerals, | And The | Arrangement of Collections. | [ornate rule] | By John Mawe. | [...5 lines of titles and memberships...] | The Fourth Edition. | Entirely re-written, and considerably enlarged. | [ornate rule] | London: | Printed For And Sold By The Author, 149, Strand; And Longman, | Hurst, Rees, Orme, and Brown, Paternoster-Row. | 1823.

8°:  $\pi^9$  b<sup>2</sup> B-M<sup>8</sup> N<sup>2</sup>; 100*ℓ*.; [i]-xx, [1]-178, 2 p. VERY SCARCE.

CONTENTS: [i-ii], Half title page, "Descriptive Catalogue," verso blank; [iii-iv], Title page, verso "[tapered rule] | W. McDowall, Printer, Pemberton Row, | Gough Square."; [v]-vii, "Preface."; [ix]-xiv, "Simple Forms."; [xv]-xviii, "A | Vocabulary, | containing | an explanation of the terms commonly used | in mineralogy."; [xix]-xx, "Contents."; [1]-160, Text.; [161]-166, "Appendix."; [167]-178, "Index."; [2 pgs], Author's list of books in print.

REFERENCES: BMC: 3, 1271. • NUC: 371, 133-6 [NM 0362820].

**3282. 5th edition, 1825:** ... A New Descriptive Catalogue of Minerals ... intended for the use of Students ... Fifth edition. ... London: Printed and sold by the Author, and by Longman, Hurst, Rees, Orme, and Brown, 1825.

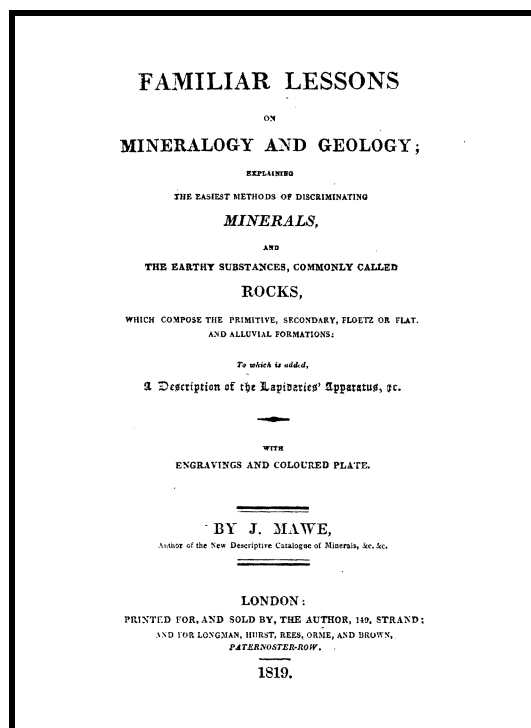
8°: 178 p. VERY SCARCE.

REFERENCES: NUC: 371, 133-6 [NM 0362821].

**3283. 7th edition, 1827:** New Descriptive Catalogue of Minerals; with Diagrams of their Simple Forms: intended for the use of Students, in the Classification of Minerals, and the Arrangement of Collections. By John Mawe ... Eighth edition. London: The Author, etc., 1827.

12°: xii, 180 p., diagrs. VERY SCARCE.

REFERENCES: NUC: 371, 133-6 [NM 0362823].



FAMILIAR LESSONS, 1819

### Familiar Lessons

**3284. — English, 1819** [First edition].

Familiar Lessons | On | Mineralogy And Geology; | Explaining | The Easiest Methods Of Discriminating | Minerals, | And | The Earthy Substances, Commonly Called | Rocks, | Which Compose The Primitive, Secondary, Floetz Or Flat, | And Alluvial Formations; | To which is added, | a Description of the Lapidaries' Apparatus, &c. | [tapered rule] | With | Engravings And Coloured Plate. | [double rule] | By J. Mawe, | Author of the New Descriptive Catalogue of Minerals, &c. &c. | [double rule] | London: | Printed For, And Sold By, The Author, 149, Strand; | And For Longman, Hurst, Rees, Orme, And Brown, | Paternoster-Row. | [rule] | 1819.

12°: a<sup>4</sup> B-G<sup>6</sup> H<sup>4</sup>; 44*ℓ*.; [i]-viii, [1]-78, [2] p., frontispiece (colored), 2 plates. PAGE SIZE: 166 x 100 mm.

## MAWE

CONTENTS: [i-ii], Title page, verso "Bornard And Farley | Skinner Street, London."; [iii]-vi, "Preface."; [vii]-viii, "Contents."; [1]-78, Text.; [1 pg], "Errata."; [1 pg], Blank.

PLATES: The hand-colored frontispiece shows two scenes. 1. Raked from the rivulet for gold and diamonds. 2. Section of the strata at matlock high Tor. Derbyshire. The two engraved plates show Primitive Rocks (p. 41) and Portable Lapidaries' Apparatus (p. 73).

RARE. An introductory work for used by the beginning mineralogist to explain terms and introduce concepts of mineralogy. Mawe first published this very popular work in 1819, and continued to revise and reissue it through 1830 and twelve editions. The basic format of the work changed little over the period, however. It is a wonderful work, written from the viewpoint of practical experience, and includes basic observations on minerals, gems, geology and the lapidary craft. The colored plate of minerals shows 22 finely executed renderings of various mineral species. The text was only marginally changed through the subsequent editions [which see below].

REFERENCES: BL: [973.b.38.]. • BMC: 3, 1271 [wanting]. • NUC: 371, 133-6 [NM 0362801].

**3285. 2nd edition, 1820:** Familiar Lessons | On | Mineralogy And Geology; | Explaining | The Easiest Methods Of Discriminating | Minerals, | And | The Earthy Substances, Generally Called | Rocks, | Which Compose The Primitive, Secondary, Floetz Or Flat, | And Alluvial Formations: | To which is added, | A Description of the Lapidaries' Apparatus, &c. | [tapered rule] | With | Engravings And Coloured Plates. | [double rule] | By J. Mawe, | [...3 lines of titles and memberships...] | [double rule] | Second Edition. | [tapered rule] | London: | Printed For, And Sold By, The Author, 149 Strand; | And For Longman, Hurst, Rees, Orme, And Brown, | Paternoster-Row. | [short rule] | 1820.

12<sup>o</sup>: [i]-vi, [2], [1]-96 p., 3 plates (2 hand-colored). PAGE SIZE: 176 x 102 mm. RARE.

CONTENTS: [Frontispiece.]; [i-ii], Title page, verso "Barnard And Farley, | Skinner Street, London."; [iii]-vi, "Preface."; [2 pgs], "Description And Explanation | Of The | Coloured Plate Of Minerals."; [1]-76, Text.; 77-78, "Description | Of | Coloured Plate."; 79-87, Text.; [88]-94, "Description | Of The | Portable Lapidaries' Apparatus."; [95]-96, "Index."

REFERENCES: BL: [973.b.39.]. • NUC: 371, 133-6 [NM 0362802].

**3286. 3rd edition, 1821:** Familiar Lessons | On | Mineralogy And Geology; | Explaining | The Easiest Methods Of Discriminating | Metals, Earths, And Rocks, | With Coloured Plates. | To which is added, | A Practical Description Of the Use Of The | Lapidaries' Apparatus, | Shewing And Describing The Method Of Cutting, Slitting, And | Polishing, | Precious Stones, Pebbles, Agates, &c. | [wavy rule] | [...2 lines of quotation...] | [wavy rule] | By J. Mawe, | [...3 lines of titles and memberships...] | [tapered rule] | Third Edition. | [tapered rule] | London: | Printed For, And Sold By, The Author, 149, Strand; | And For Longman, Hurst, Rees, Orme, And Brown, | Paternoster-Row. | [rule] | 1821.

8<sup>o</sup>: viii, 106 p., 4 hand-colored plates. VERY SCARCE.

REFERENCES: BL: [7105.aa.38.]. • BMC: 3, 1271. • NUC: 371, 133-6 [NM 0362803].

**3287. 4th edition, 1822:** Familiar Lessons | On | Mineralogy And Geology: | With | Colored Plates. | To which is added, | A Practical Description Of The Use Of | The | Lapidary's Apparatus, | Explaining the Methods of slitting and polishing Pebbles, &c. | By J. Mawe, | [...3 lines of titles and memberships...] | [double rule] | Whose hand

unseen the works of nature dooms, | By laws unknown! Who Gives And Who Resumes. | [double rule] | Fourth Edition. | [ornate rule] | London: | Printed For And Sold By The Author, 149 Strand; And Longman, | Hurst, Rees, Orme, And Brown, Paternoster-Row. | 1822.

12<sup>o</sup>: π<sup>4</sup> B-H8; 60ℓ.; [i]-vii, [1], [1]-108, [1]-iii, [1] p., 4 hand-colored plates. PAGE SIZE: 176 x 104 mm. VERY SCARCE.

CONTENTS: [i-ii], [Half title page, verso blank, missing from copy examined].; [iii-iv], Title page, verso blank.; [v]-vii, "Preface."; [1], "Description And Explanation | Of The | Colored Plate Of Minerals."; [1]-52, Text of lessons in mineralogy.; 53-95, Text of lessons in geology.; 96-97, "...Classification Of Metals."; 98-99, "Description | Of | Colored Plate. | See Frontispiece."; 100-101, "Description | Of | Colored Plate. | See Frontispiece."; 102-108, "Description | Of The | Lapidary's Apparatus, | And | Instructions For Using It."; [i]-iii, "Index."; [1 pg], Publisher's list.

PLATES: Frontispiece shows a Brazilian miner washing the alluvial gravels and a view near Matlock, Derbyshire. Plate 2 shows 22 hand-colored figures of mineral specimens. Plate "A" shows 3 scenes and cross-sections. Plate 4 shows lapidary apparatus.

REFERENCES: NUC: 371, 133-6 [NM 0362804 & NM 0362805].

**3288. 5th edition, 1823:** Familiar Lessons | On | Mineralogy And Geology: | With | Colored Plates. | To which is added, | A Practical Description Of The Use Of | The | Lapidary's Apparatus, | Explaining the Methods of slitting and polishing Pebbles, &c. | By J. Mawe, | [...3 lines of titles and memberships...] | [double rule] | Whose hand unseen the works of nature dooms, | By laws unknown! Who Gives And Who Resumes. | [double rule] | Fifth Edition. | [ornate rule] | London: | Printed For And Sold By The Author, 149 Strand; And Longman, | Hurst, Rees, Orme, And Brown, Paternoster-Row. | 1823.

8<sup>o</sup>: [i]-vii, [2], [1]-111, [1] p., frontispiece, one plate. Page 110 misnumbered "ii." PAGE SIZE: 175 x 108 mm. VERY SCARCE.

CONTENTS: [i-ii], Half title page, "Lessons On Mineralogy," verso "W. McDowall, Printer, Pemberton Row, Gough Square."; [Frontispiece.]; [iii-iv], Title page, verso blank.; [v]-vii, "Preface."; [1], "Description And Explanation | Of The | Colored Plate Of Minerals."; [1]-97, Text.; 98-101, "Description | Of | Colored Plate. | See Frontispiece."; 102-108, "Description | Of The | Lapidary's Apparatus, | And | Illustrations For Using It." [=description of plate, page 102.]; [109]-111, "Index."; [1 pg], Publisher's list.

REFERENCES: BL: [C.194.a.125.].

**3289. 6th edition, 1824:** Familiar Lessons on Mineralogy and Geology ... To which is added a Practical Description of the Use of Lapidary's Apparatus, explaining the methods of slitting and polishing pebbles, &c. ... Sixth edition. London: The Author and Longman, Hurst, Rees, Orme, Brown and Green, 1824.

12<sup>o</sup>: vii, 108, iii p., plates (some colored). VERY SCARCE.

REFERENCES: NUC: 371, 133-6 [NM 0362806].

**3290. 7th edition, 1825:** Familiar Lessons on Mineralogy and Geology ... To which is added a Practical Description of the Use of Lapidary's Apparatus, explaining the methods of slitting and polishing pebbles, &c. ... Seventh edition. London: Longman, Hurst, Rees, Orme, Brown and Green, and J. Mawe, 1825.

12<sup>o</sup>: vii, 110 p., plates (some colored). VERY SCARCE.

REFERENCES: BL: [7112.a.12.]. • NUC: 371, 133-6 [NM 0362807].

**3291. 8th edition, 1826:** Familiar Lessons on Mineralogy and Geology ... To which is added a Practical Description of the Use of Lapidary's Apparatus, explaining the methods

of slitting and polishing pebbles, &c. ... Eighth edition. London, 1826.

12°: vii, 110 p., plates (some colored). VERY SCARCE.  
REFERENCES: NUC: 371, 133-6 [NM 0362808].

**3292. 9th edition, 1828:** Familiar | Lessons | On | Mineralogy And Geology: | With | Colored Plates. | To which is added | A Practical Description Of The Use Of | The | Lapidary's Apparatus, | Explaining the Methods of slitting and polishing Pebbles, &c. | By J. Mawe, | [...3 lines of titles and memberships...] | [short rule] | Whose hand unseen the works of nature dooms, | By laws unknown! Who Gives And Who Resumes. | [short rule] | Ninth Edition. | [tapered rule] | London. | Published By Longman, Rees, Orme, Browne, And Green, | Paternoster-Row. | And By J. Mawe, N<sup>o</sup>. 149, Strand. | [short rule] | 1828.

8°:  $\pi^6$  B-F<sup>12</sup>; 66 $\ell$ .; [i]-ix, [3], [1]-116, [4] p., frontispiece (colored), 4 plates. PAGE SIZE: 166 x 105 mm.

CONTENTS: [i-ii], Title page, verso "London: | W. McDowall, Printer, Pemberton-Row, Gough-Square."; [iii]-ix, "Preface."; [1 pg], Blank.; [1 pg], "Description And Explanation | Of The | Colored Plate Of Minerals."; [1 pg], "Explanation Of Plate (A). | (To face p. 106) ..."; [1]-98, Text.; 99-100, "Description Of Colored Plate."; 101-103, "Description Of The Lapidary's Apparatus."; [114]-116, "Index."; [4 pgs], Advertisements.

VERY SCARCE. The text is written as a series of lessons. I-IV (pp. 1-52) cover mineralogy and V-VIII (pp. 53-98) are on geology.

REFERENCES: BL: [7108.a.26.]. • NUC: [no copy listed].

**3293. 10th edition, 1828:** Familiar Lessons on Mineralogy and Geology ... Tenth edition. London, 1828.

12°: [12], 116, [4] p., 5 plates (4 hand-colored). VERY SCARCE.

REFERENCES: BL: [970.i.29.].

**3294. 11th edition, 1829:** Familiar Lessons on Mineralogy and Geology ... To which is added a Practical Description of the Use of Lapidary's Apparatus, explaining the methods of slitting and polishing pebbles, &c. ... Eleventh edition. London, 1829.

12°: 116 p., plates (some colored). VERY SCARCE.

REFERENCES: NUC: 371, 133-6 [NM 0362809].

**3295. 12th edition, 1830:** Familiar | Lessons | On | Mineralogy And Geology: | With | Colored Plates. | To which is added | A Practical Description Of The Use Of | The | Lapidary's Apparatus, | Explaining the Methods of slitting and polishing Pebbles, &c. | By J. Mawe, | [...3 lines of titles and memberships...] | [short rule] | Whose hand unseen the works of nature dooms, | By laws unknown! Who Gives And Who Resumes. | [short rule] | Twelfth Edition. | [tapered rule] | London. | Published By Longman, Rees, Orme, Browne, And Green, | Paternoster-Row. | And By J. Mawe, N<sup>o</sup>. 149, Strand. | [short rule] | 1830.

12°: [i]-ix, [2], [1]-116, [4] p., frontispiece (hand-colored), 2 plates (one hand-colored). PAGE SIZE: 174 x 116 mm. VERY SCARCE.

CONTENTS: [i-ii], Title page, verso "London: | W. McDowall, Printer, Pemberton-Row, Gough-Square."; [iii]-ix, "Preface."; [1 pg], "Description And Explanation | Of The | Colored Plate Of Minerals."; [1 pg], "Explanation Of Plate (A). | (To face p. 106) ..."; [1]-113, Text.; [114]-116, "Index."; [2 pgs], "List Of Useful Articles | Composing | A Chemical Apparatus | For The Analysis And Examination Of Minerals."; [2 pgs], "Works Published By Messrs. Longman & Co., Paternoster Row | ..."

REFERENCES: NUC: 371, 133-6 [NM 0362810].

### Blowpipes

**3296. — English, 1820** [First edition].

Instructions for the Management of the Blow-Pipe and Chemical Tests, intended to Accompany Lessons on Mineralogy. London, 1820.

12°: 47 p. RARE.

REFERENCES: NUC: 371, 133-6 [NM 0362812].

**3297. 3rd edition, 1822:** Instructions for the Management of the Blow-Pipe and Chemical Tests, intended to Accompany the Familiar Lessons on Mineralogy and Geology. Third edition with additions and observations derived from the recent publication of Professor Berzelius. London, Printed for and sold by the Author and by Longman, Hurst, Rees, Orme, and Brown, 1822.

12°: 71 p., plates (some colored?). RARE.

REFERENCES: BL: [1825 ed.]. • NUC: 371, 133-6 [NM 0362813].

**3298. 4th edition, 1825:** Instructions for the use of the blow-pipe, and chemical tests with additions and observations derived from the recent publication of Professor Berzelius by J. Mawe. Fourth edition. London, Printed for and sold by the author; and by Longman, Hurst, Rees, Orme, Brown, and Green, 1825.

12°: [i]-vii, [1], [1]-66 p., color plate. RARE.

REFERENCES: BL: [8909.a.17.].

**3299. — English, 1827.**

Description of the lapidary's portable apparatus, for cutting, slitting, and polishing crystal, jasper, agate, chalcedony, and precious stones: written expressly for amateur lapidaries. By J. Mawe, ... London, Printed by W. M'Dowall, 1827.

12°: [4], 16, [2] p, [2]leaves of plates. ill. One of the plates is coloured by hand

VERY SCARCE. Notes: With [2]p of advertisements for books published by Messrs. Longman & Co. Paternoster Row and by theauthor, J. Mawe, 149, Strand at end of text

REFERENCES: BL: [RB.23.a.23822].

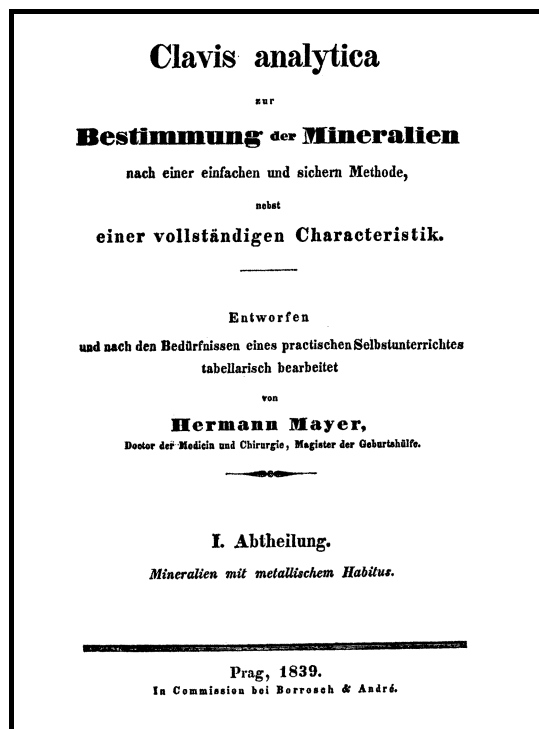
**MAYER, Hermann.**

**3300. — German, 1839-40.**

Clavis analytica | zur | Bestimmung der Mineralien | nach einer einfachen und sichern Methode, | nebst | einer vollständigen Charakteristik. | [short rule] | Entworfen | und nach den Bedürfnissen eines practischen Selbstunterrichtes | tabellarisch bearbeitet | von | Hermann Mayer, | Doctor der Medicin und Chirurgie, Magister der Geburtshülfe. | [ornate rule] | I. [-II.] Abtheilung. | Mineralien mit metallischem Habitus. | [rule] | Prag, 1839. [-1840.] | In Commission bei Borrosch & André.

2 parts in one volume. [Theil 1: 1839] 4°:  $\pi^2$  \*4 \*\*4 a-13<sup>4</sup>; 62 $\ell$ .; [4], [i]-xiii, [3], 1-103, [1] p. [Theil 2: 1840] 4°:  $\pi^4$  1-55<sup>4</sup> 56<sup>3</sup>; 227 $\ell$ .; [i]-vi, [2], [1]-446 p.

CONTENTS: [Part 1] [2 pgs], Title page, verso "Druck bei K. Gerzabek, | Brenntegasse."; [1 pg], Dedication to Graf Carl.; [1 pg], Blank.; [i]-xiii, "Vorbericht."—dated April 1839.; [1 pg], "Erklärung einiger Abkürzungen."; [1 pg], Sectional title page, "I. Abtheilung | [rule] | Mineralien | mit | metallischen Habitus."; [1 pg], "Übersicht dieser Abtheilung."; [1]-103, Text.; [1 pg], Blank.



CLAVIS ANALYTICA, 1839

[Part 2] [i-ii], Title page, verso blank.; [iii], Sectional title page, "II. Abtheilung | [rule] | Mineralien | ohne | Metall-Habitus | (ohne Metallausssehen\*)."; [iv]-vi, "Uebersicht der II. Abtheilung."; [1 pg], "I. Schema. | [rule] | Mineralien ohne Metallhabitus | im | deutlich und erkennbar krystallisirten | Zustande."; [1 pg], Blank.; [1]-85, Text.; [86], Blank.; [87], Sectional title page, "II. Schema. | [rule] | Mineralien ohne Metallhabitus | im | undeutlich oder nicht krystallisirten | Zustande."; 88-261, Tables. [=tables organized by hardness that provide information on the physical properties and crystal morphology of each species listed]; [262]-282, "Anhang | zur | II Abtheilung."; [283]-425, Sectional title page, "Summarische | Charakteristik | aller | Mineralien ohne Metallhabitus."; [426]-439, "Register | über beide Abtheilungen."; [440], Blank.; [441]-444, Errata.; [445]-446, "Zusätze und nachträgliche Bemerkungen."

VERY SCARCE. A textbook approaching the description and classification of minerals through physical-chemical properties. Within the first volume, Mayer divides the species into those that are metallic with a further division by one of five crystal systems, and those that are metallic with no definite form such as mercury. Contained in the second volume, the author continues his descriptive scheme by classifying the non-metallic salts by crystal morphology. A series of tables (pp. 88-261) group the mineral species by hardness on Mohs scale and provide information on physical properties, crystal morphology, and chemical properties for each species listed.

REFERENCES: BL: [no copy listed]. • BMC: 3, 1237.

**MAZZOTTA, Benedetto.** (BORN: ; DIED: )  
*Italian theologian & philosopher.*

REFERENCES: ABI: I 641, 264-266. • Jöcher, *Gelehrten-Lexikon*, 1750-51. • WBI.

### 3301. — Latin, 1653.

R.P.D. Benedictvs | Mazzotta Licyensis | A Novoli | Congregationis Cœlestinorum Ordinis Sancti Benedicti | Bononiæ Philos. ac S. Theol. Lector. | De Triplici Philosophia | Naturali, Astrologica, Et Minerali. | In Qvibvs | Differit cohærenter de Elementis, & varijs mixtorum proprietatibus. Possibilitate corporis | physici cpmpleti non compositi. Productione Mundi temporanea, & eius possibilitate | ab æterno. Compositione continui ex solis indivisibilibus finitis, & probaliter ex in- | flatis. Productione substantiæ. Infinito. Intensione. Rarefactione, & condensatione. De | modo formandi veros colores Lapidum pretiosorum. Specula ustoria, & præparandi | lapidem luminosum. De methæoris omnibus. Metallorum natura, & transmutatione, | rebusq; mineralibus, aliq; arcanis Chymicis. Effectibus Planetarum iuxta varias eo- | rum configurationes, Eclipsibus, & magnis Coniunctionibus, alijsque causis cœlestibus, | & nouis, præter communes, Planetarum aspectibus, & eorum significatis; alijsq; quæsti- | onibus Naturalibus, Astrologicis, & Mineralibus. | Opvs | Theol. Philos. Medicis, Chymicis, & Astrologis iucundum, ac simul vtile. | [ornament] | Bologna, Io. Baptista Ferroni, 1653. Superiorum permissu.

4°: [a]<sup>5</sup> A-R<sup>4</sup> S<sup>6</sup>, A-Ll<sup>4</sup>; 80ℓ.+136ℓ.; [10], 1-148, 1-272 p., frontispiece, one engraved plate (showing a marble pillar with cherub on top and an astrological diagram), a few text illus. There is a large allegorical woodcut of the requisites of natural scientists and alchemists on title, and a richly engraved allegorical frontispiece with flying cherubs and little naked children paying honour to the tree of knowledge comprising the coat of arms of Bologna, signed Il Coriolano, some astronomical woodcut figures and engravings in text, full-page engraved plate with illustrations of celestial fire, some woodcut tables, one full-page, of the signs of the Zodiac and numerous small astrological signs in text in the last part. COLOPHON: (p. 272) dated 13 September 1653. PAGE SIZE: 198 x 142 mm.

CONTENTS: [2 pgs], Half title page, "Mazzotta | De Triplici Philosophia | Natvralli, Astrologica, | Et Minerali," verso blank.; [2 pgs], Title page, verso blank.; [2 pgs], Dedication to Hipolyto Cattaneo, signed Benedictus Mazzottta MCL (=1650).; [1 pg], "Lectori Benevolo."; [1 pg], "Stimvlatvr Avthor | ad Opus hoc prælo dandum."; [1 pg], "D. Hilarius Spighius Romanus Abbas ..." (=recommendations).; [1 pg], "Index."; 1-148, Text.; 1-272, Text.; [At end], one folding plate.

VERY RARE. Apparently the sole edition published of an interesting work on natural philosophy by Benedetto Mazzotta, professor of theology at the University of Bologna and member of the Benedictine Order. The first part contains a survey of meteorology

as it was known at the time of the writer, with particular attention being given to comets and meteors. The second part contains a description of minerals and metals (pp. 153-208) and is partly alchemical while the last portion deals with astrology.

Mazzotta still belonged to the Old School of Bologna scientists, speculating on the powers of the elements, the planets and precious stones, and believing that the earth remained immobile at the centre of the universe "against what Copernicus said and the Church condemned." The work beautifully illustrates scientific knowledge at the threshold of modern science, which would increasingly be based on experiments rather than on philosophic speculation. Mazzotta defended fire as an element, and although in this connection he held that comets could well pass through the sphere of fire and be elevated above the moon, he still regarded them as terrestrial exhalations and held elsewhere that many of them remained below the moon. He opposed those who contended that heat and cold were not distinct qualities. He admitted that earth and water formed a single globe, but affirmed that "no fixed truth" had yet been reached with regard to the tides, although he inclined to ascribe them to the moon with the concurrence of the sun and stars. Earlier however, he had stated that the flux and reflux was also caused by angelic movers of water. Although a theologian, he continued the favourable attitude towards astrology which had so long prevailed in Bologna. He urged his readers to pay careful attention to the annual prognostications, given by Ovidius Montelbanus, Gassius, Grimaldi, and others, and he still believed that through centuries past the stars had produced memorable changes in the air and the world. He sees eclipses, conjunctions and comets as divine oracles. He grants there are popular impostors in astrology, but astrological philosophy is treated at length, with chapters on all points to be considered before making a prediction. Comets especially are seen as signs of great events, and the author makes a prognostication for 1652-1653 based on the comet seen from December 17, 1652 to January 12, 1653. And at the end he gives forty general astrological aphorisms. The work seems to have escaped the attention of both alchemist and scientist, historians and collectors, probably because it was only published once, closing the alchemist era, and half-heartedly entering modern science.

**Bartolomeo Coriolano.** (BORN: 1599; DIED: 1676) *Italian artist & engraver.* Of special interest are the engraved plates by Bartolomeo Coriolano (1599-1676), a pupil of his father Giovanni Battista Coriolano, who died in 1649, and of Guido Reni. He was especially gifted as draughtsman and engraver.

REFERENCES: BL: [537.b.8.(1.)]. • Caillet, *Manuel*, 1912: [no copy listed]. • Harvey, *History of Luminescence*, 1957: p. 315 ["devoted a short paragraph to the Bolognian phosphor in his book..."]. • Riccardi, *Biblioteca Mathematica Italiana*, 1893: 1, 2, pp. 144-5. • Sinkankas, *Gemology Bibliography*, 1993: [no copy listed]. • Thorndike, *History of Magic*, 1923-58: 7, 643-6. (**Coriolano**) ABI: I 319, 311-323; II S 23, 319. • Nagler, *Neues allgemeines Künstler-Lexikon*, 1835-52. • Thieme & Becker, *Allgemeines Lexikon*, 1907-50: 7, 415. • WBI.

**MEAD, Richard.** (BORN: Stepney near London, England, 11 August 1673; DIED: London, England, 16 February 1754) *English physician.*

Educated at Utrecht and Leyden, Mead travelled to Italy where he received his M.D. from Padua in 1695. Upon returning to England, he opened a medical practice first in Stepney, then later in London. In 1703, he was appointed a doctor at St. Thomas-Hospital. At the end of his career he became physician to King George II. Mead was F.R.S. (1704), being elected vice president in 1717. He was also elected to the Royal College of Physicians (1716). His wealth allowed him to finance his collecting and various literary projects.

REFERENCES: BBA: I 757, 248-387; II 1652, 290-291. • DNB. • Hirsch, *Biographisches Lexikon*, 1884-8: 4, 187-8. • Leman, T., *Some memoirs of the life and writings of the late Dr. Richard Mead...* London, 1755. • Mead, R., *The Medical Works. With an account of the Life and Writings of the Author.* Edinburgh, Printed by A. Donaldson and J. Reid for Alexander Donaldson, 1765, 3 vols. • Munk, W., *The roll of the Royal College of Physicians of London.* 2nd edition. London, 1878, 3 vols. • Poggendorff: 2, col. 98. • Waller, *Dictionary of Universal Biography*, 1857-63. • Watt, *Bibliotheca Britannica*, 1824. • WBI.

## MVSEVM MEADIANVM,

SIVE,

CATALOGVS NVMMORVM,

VETERIS AEVI

MONVMENTORVM, ac GEMMARVM,

Cum aliis quibusdam

Artis recentioris et Naturae OPERIBVS;

Quae Vir Clarissimus

RICHARDVS MEAD, M. D.

Nuper defunctus comparaverat.

Reliquias, veterumque vides monumenta virorum. Virg.

L O N D O N I,

Catalogus proflat apud A. Langford in aera dicta Covent-Garden;  
et S. Baker in York-street.

[Pret. 1. 1. 6d.]

MVSEVM MEADIANVM, 1755

### 3302. — Latin, 1755 [Sale catalog].

Mvsevm Meadianvm, | Sive, | Catalogvs  
Nvmmorvm, | Veteris Aevi | Monvmentorvm,  
ac Gemmarvm, | Cum aliis quibusdam | Artis  
recentioris et Naturae Qperibvs; | Quae Vir  
Clarissimus | Richardvs Mead, M.D. | Nuper  
defunctus comparaverat. | [rule] | Reliquias,  
veterumque vides monumenta virorum. Virg. |



## MEGENBERG

[rule] | Londini, | Catalogus prostat apud A. Langford in area dicta Covent-Garden; | et S. Baker in York-street. | [Pret. 1s. 6d.]

4°:  $\pi^2$  B-Z<sup>4</sup> 2A-2K<sup>4</sup> 2L<sup>3</sup>; 133ℓ.; [4], [1]-262 p., one plate (showing ancient coins). PAGE SIZE: 206 x 128 mm.

CONTENTS: [2 pgs], Title page, verso "The Reader is desired to correct in the Catalogue ...; [1 pg], Sectional title page, "Mvsei Meadiani | Pars Prior: | Qvæ | Nummos veteres et recentiores | complectitur. | Prastabunt venalia sub hasta, | Apud A. Langford, in area dicta Covent-Garden, Londoni, | Die Martis, XI. Februarii M.DCC.LV.; [1 pg], "Ordo Nvmmorum, IProut hic disponuntur.; [1]-210, "...The First Days Sale, Tuesday, Feb. 11, 1755.; [211], Sectional title page, "Mvsei Meadiani | Pars Altera: | Qvae | Veteris ævi Monvmenta ac Gemmas, | Cum aliis quibusdam | Artis Recentioris et Natvrae Operibvs, | Complectitur. | Prostabunt venalia sub hasta, | Apud A. Langford, in area dicta Covent-Garden, Londoni, | Die Martis, XI. Martii, M.DCC.LV.; [212], "Lectori Benevol.; [213]-262, Text.

VERY SCARCE. SCARCE AUCTION CATALOG. Dr. Mead had developed a taste for classical learning and antiquities during his education at Utrecht and Leyden. Together with his fellow student, HERMANN BOERHAAVE, he became an avid collector and formed a museum. Meads professional success brought him great wealth which he used to indulge his tastes. His spacious home "became a repository of all that was curious in nature and in art, to which his extensive correspondence with the Learned in all parts of Europe not a little contributed (Leman, 1755). He always made his collections available for students and the curious public. After his death, the heirs put the magnificent library and other collections up for auction. These sales occurred from late 1754 to the summer of the following year.

The *Museum Meadianum* here described is in two parts. The first section describes the ancient and foreign coins contained in the collection. The sale for this part commenced on February 11, 1755 and lasted for 8 days thereafter. The second part commencing on page 211 describes the lots sold beginning on March 11, 1755. This portion embraces Egyptian artifacts, including mummies, carvings, vases, Etruscan antiquities, statues, cut and sculptured gems, signette rings, mineral specimens including native silvers and golds, cassiterite, and an emerald crystal, vegetables and animals.

REFERENCES: BL. • Leman, T., *Some memoirs of the life and writings of the late Dr. Richard Mead...* London, 1755. • Murray, *Museums*, 1904: 1, 122-3 & 3, 20. • NUC. • Osler, *Bibliotheca Osleriana*, 1969: no. 3370.

**MEDVEDEV, Mikhail.** (BORN: ; DIED: ) *Russian mineralogist.*

### 3303. — Russian, 1863.

Минералогія | составленная | Михаиломъ Медвѣдевымъ. | [rule] | Съ 65-Ми Подитинажами. | [rule] | С. Петербургъ. | Въ типографіи О.И. Бакста. | 1863.

[TRANSLITERATED TITLE:]

Mineralogiia | sostavlennaia | Mikhailom Medvedevym. | [rule] | S 65-Mi Poditinazhami. | [rule] | S. Peterburg. | V tipografii O.I. Baksta. | 1863.

8°: [2], [I]-IV, [I]-II, [1]-527, [1], [I]-XVIII, [I]-III, [1] p., 8 plates (2 folding; 1-6 show xl drawings, 7 goniometers, 8 optical polarization, colored). PAGE SIZE: 195 x 136 mm.

CONTENTS: [2 pgs], Title page, verso "Дозволено цензурою. С. Петербуртъ. 25 сент бря 1863."; [I], Dedication to Koksharov.; [II], Blank.; [III]-IV, "Оглавление." (=table of contents); [I]-II, "Предисловие."—dated 1863.; 1-527, Text.; [1 pg], Blank.; [I]-XVIII, "Алфавитный Указатель." (=index of species); [I]-III, "Опечутки."; [1], Blank.; 8 plates.; [1], "Кополнение."; [1 pg], Blank.

RARE. In this important Russian mineralogical textbook, Medvedev provides information on the basics of mineralogical science together with a descriptive mineralogy of the more common species found in the Russian empire. This work was used throughout the universities and colleges of Russia.

REFERENCES: BL. • NUC. • Povarennykh, *Definition of Mineral*, 1964.

**MEGENBERG, Konrad von.** *German.*

See: Konrad Von Megenberg.

**MEIDINGER, Karl Freiherr von.** (BORN: Trier, Germany, 1 May 1750; DIED: Vienna, Austria, 1820) *Austrian aristocrat.*

Son of Johann Friedrich Freiherr von Meidinger [1726-1777], Meidinger was a royal advisor and consultant on state matters in Vienna.

REFERENCES: Lambrecht & Quenstedt, *Catalogus*, 1938: 287. • Poggendorff: 2, col. 102. • Schröter's *Journal für die Liebhaber*: 5, 562-4. • Tornier, *Gesellschaft Naturforschender*, 1924: 33. • Wurzbach, *Biographisches Lexikon Österreich*, 1856-91: 17, 277-8.

### 3304. — German, 1785 [First edition].

Versuch | einer naturgemäßen | Eintheilung | des | Mineralreichs | für Anfänger, | von | Karl, Freyherrn von Meidinger, | [...4 lines of titles and memberships...] | [vignette] | [rule] | Wien und Leipzig, | bey Friedrich August Hartmann 1785.

8°: A-O<sup>8</sup> P<sup>4</sup>; 116ℓ.; [1]-220, [12] p., engraved title vignette. PAGE SIZE: 190 x 116 mm.

CONTENTS: [1-2], Title page, verso blank.; [3]-[8], Dedication to the Berliner Gesellschaft, signed Karl Freyherr von Meidinger.; [9]-19, "Vorrede."—dated 1 October 1784.; [20]-24, "Tafel | über das Mineralreich."; [25]-30, "Einleitung."; [31]-220, Text.; [10 pgs], "Register."; [1 pg], "Druckfehler."; [1 pg], Blank.

VERY SCARCE. This introduction to systematic mineralogy is based on the earlier works of Cronstedt, Wallerius, Bergmann, and Gmelin. There are also appendices on volcanic products and bitumen.

REFERENCES: BL: [974.b.15.]. • LKG: XV 207. • NUC: [no copy listed].

**3305. Reissue, 1787:** Versuch | einer | naurgemässen Eintheilung | des | Mineralreichs | für Anfänger, | von | Karl, Freyherrn von Meidinger, | [...3 lines of titles and memberships...] | [vignette] | [double rule] | Wien, | bey Johann David Hörling, Buchdrucker und | Buchhändler. 1787.



VERSUCH, 1785

8°: A-O<sup>8</sup> P<sup>4</sup>; 116 $\ell$ .; [1]-220, [12] p., engraved title vignette.

CONTENTS: [1]-2], Title page, verso blank.; [3]-[8], Dedication to the Berliner Gesellschaft, signed Karl Freyherr von Meidinger.; [9]-19, "Vorrede."—dated 1 October 1784.; [20]-24, "Tafel | über das Mineralreich.;" [25]-30, "Einleitung.;" [31]-220, Text.; [10 pgs], "Register.;" [1 pg], "Druckfehler.;" [1 pg], Blank.

VERY SCARCE. A reissue of the 1785 sheets with a new title.

REFERENCES: *Allgemeine Deutsche Bibliothek*: Suppl. to vols. 53-86, 666. • *Allgemeine Literatur-Zeitung*: 3 (1788), 874. • BL: [953.f.8.]. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 28. • LKG: XV 207. • NUC: [no copy listed].

Anfangsgründe der systematischen und praktischen Mineralogie ... Aus dem Lateinischen übersetzt von Karl von Meidinger ... (Prag, 1775).

See: Scopoli, Giovanni Antonio.

Chemisch-mineralogischer Versuch über die Bäder und Gebürge von Baaden ... übersetzt von Karl Freyherrn von Meidinger ... (Wien, 1792).

See: Volta, Giovanni Serafino.

Anfangsgründe der analytischen und systematischen Mineralogie ... übersetzt und ... vermehrt von Karl Freiherr von Meidinger ... (Wien, 1793).

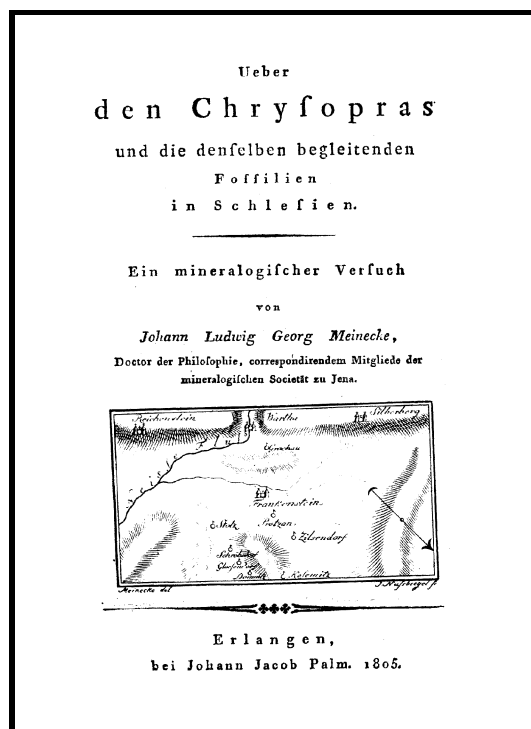
See: Volta, Giovanni Serafino.

**MEINECKE, Johann Ludwig Georg.** (BORN: Stadthagen, Lippe-Schaumburg, Germany, 3 January 1781; DIED: Schkeuditz, Germany, 27 August 1823) *German mathematician & naturalist.*

From 1805 to 1811, Meinecke was an instructor of physics and mathematician at the Paedagogium in Halle. In 1814 he became professor of physics, chemistry and natural history at the Artillery and Engineering School in

Cassel. Finally he became professor ordinary of technology at the University of Halle.

REFERENCES: ADB. • DBA: I 821, 160-162; II 870, 350-352. • Hamberger & Meusel, *Gelehrte Teutschland*, 1796-1834. • NDB. • Poggendorff: 2, cols. 103-4. • WBI.



UEBER DEN CHRYSOPRAS, 1805

### 3306. — German, 1805.

Ueber | den Chrysopras | und die denselben begleitenden | Fossilien | in Schlesien. | [tapered rule] | Ein mineralogischer Versuch | von | Johann Ludwig Georg Meinecke, | Doctor der Philosophie, correspondirendem Mitgliede der | mineralogischen Societät Jena. | [Rectangular engraved vignette showing a map of Schlesien, Germany, signed "Meinecke del." and "J. Nussbiegel sc." ] | [ornate rule] | Erlangen, | bei Johann Jacob Palm. 1805.

8°:  $\pi^3$  )(2 A-G<sup>8</sup> H<sup>4</sup>; 65 $\ell$ .; [10], [1]-120 p., folding table (p. 32). PAGE SIZE: 200 x 118 mm.

CONTENTS: [2 pgs], Title page, verso blank.; [4 pgs], Dedication, signed Johann Ludwig Georg Meinecke, 31 August 1804.; [4 pgs], "Vorbericht.;" [1]-2], Sectional title page verso blank? (missing from copy examined).; [3]-120, Text.

VERY SCARCE. A topographical work describing the high quality chrysopras and related minerals found in Schliesia of what is now part of Poland. With in this book, material from this locality is thoroughly examined by Meinecke with regard to its geology, occurrence, associations, theories on origins, a history

## MEISSAS

of chrysopras citing several dozen authorities, its nomenclature, etc.

REFERENCES: BL: [726.c.18.(5.)]. • LKG: XVI 187. • Sinkankas, *Gemology Bibliography*, 1993: no. 4349. • USGS *Library Catalog*.

### 3307. — German, 1808.

Lehrbuch der Mineralogie mit Beziehung auf Technologie und Geographie für Schulen und Privatunterricht, von J.L.G. Meinecke. Halle, Bei Hemmerde und Schwetschke, 1808.

8°: xiv, 208 p.

VERY SCARCE. A guide used for the first instruction in mineralogy, it develops a mineralogical system based on external characteristics and relates the science to geography and technology. The volume is broken into seven major sections: introduction, learning the characteristics, elementary minerals, conglomerate minerals, instructions concerning the petrifications, geognosy, and the primitive state of solid bodies from the earth.

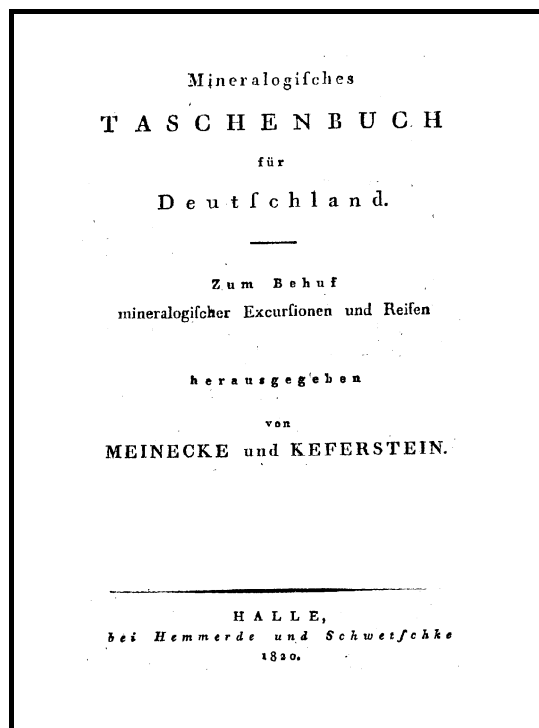
REFERENCES: BL: [970.h.30.]. • Leonard's *Taschenbuch*: 5, p. 329. • LKG: XII 176.

**3308. 2nd edition, 1824:** Lehrbuch der Mineralogie, mit Beziehung auf Technologie und Geographie. Zweite ... Auflage. herausgegeben von E. F. Germar ... Mit vier Kupfertafeln. Halle, 1824.

8°:

VERY SCARCE. Edited by Franz Ernst Germar. There is a second titlepage, which reads: "Lehrbuch der gesamten Mineralogie von E. F. Germar."

REFERENCES: BL: [7104.aa.21.].



MINERALOGISCHES TASCHENBUCH, 1820

### 3309. — German, 1820.

Mineralogisches Taschenbuch für Deutschland. [rule] Zum Behuf mineralogischer Excursionen und Reisen herausgegeben von Meinecke und Keferstein. [tapered rule] Halle, bei Hemmerde und Schwetschke 1820.

12°:  $\pi^{12}$  A-S<sup>12</sup>; 228 $\ell$ .; [i]-xxiv, [1]-432 p. PAGE SIZE: 160 x 100 mm.

CONTENTS: [i-ii], Title page, verso blank.; [iii], Dedication to Lenz, Noeggerath and Ullmann.; [iv], Blank.; [v]-viii, "Vorrede."; [ix]-xxiv, "Inhalt."; [1]-418, Text.; [419]-432, "Register."

SCARCE. Co-authored with CHRISTIAN KEFERSTEIN, this book is designed as a traveller's guide to the mineralogical wealth of Germany. The text is a descriptive mineralogy with locality information divided into 7 sections based upon the chemical makeup of the minerals: (1) Silicates, (2) Carbonates, (3) Coal and Bitumens, (4) Native Metals, (5) Sulfides minerals, (6) Metallic Oxides, and (7) Metallic Salts. At the conclusion is a comprehensive index of the minerals described.

REFERENCES: BL: [P.P.2070.]. • Schierenberg, Bookseller, *Schierenberg*: cat. 50, no. 342 (1986).

## MEISSAS, Nicolas.

### 3310. — French, 1840.

Résumés D'Histoire Naturelle, Par N. Meissas, [...2 lines of titles and memberships...] [short rule] Minéralogie [short rule] Librairie Classique De Perisse Frères, [The two imprints separated by an ornate verticle rule:] Paris, 8, Rue Du Poi-De-Fer S.-Selpice. [ornate verticle rule] Lyon, 33, Grande-Rue Mercière. [short rule] 1840.

12°:  $\pi^2$  a<sup>5</sup> 1-13<sup>12</sup> 14<sup>6</sup>; 169 $\ell$ .; [i]-xiv, [1]-323, [1] p., 6 folding plates of crystal drawings.

CONTENTS: [i-ii], Half title page, "Résumés D'Histoire Naturelle," verso "Rout Exemplaire ..."; [iii-iv], Title page, verso blank.; [v]-xiv, "Avertissement."; [1]-273, Text.; [274], Blank.; [275]-319, "Table Alphabétique Des Matières, Contenenatn Toutes Les Espèces Minérales Connues."; [320], Blank.; [321]-323, "Table Des Matières."; [1 pg], Blank.

RARE. This popular style treatment begins by briefly describing on pages 1-96 crystallography, internal structure, optics, electrical properties, phosphorescence, and chemistry. The second part of the book describes the important mineral species and their behaviour before the blowpipe flame. Classification of these described species is by their anion chemistry (fluorides, chlorides, etc.).

REFERENCES: BL: [no copy listed].

**MELLE (Mellenius), Jacob von.** (BORN: Lübeck, Germany, 17 June 1659; DIED: Lübeck, Germany, 21 June 1743) *German theologian, numismatist & historian.*

Melle was Deacon (1684), Pastor (1706) and Senior (1719) at Lübeck. He authored many papers on archaeology.

REFERENCES: ADB. • *Biographie Universelle*. • DBA: I 824, 378-402; II 874, 126. • Jöcher, *Gelehrten-Lexikon*, 1750-51. • Lambrecht & Quenstedt, *Catalogus*, 1938: 288.

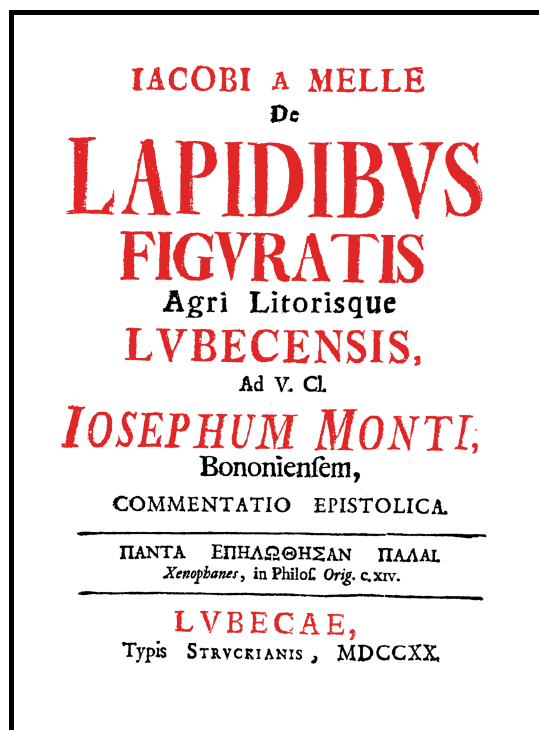
• *Nouvelle Biographie Générale* (Hofer). • Poggendorff: 2, col. 112. • WBI.

### 3311. — Latin, 1718.

De Echinitis Wagricis Epistola. Lubecae, 1718.

8°: VERY RARE.

REFERENCES: Hoover Collection: no. 575. • LKG: XVII 128. • Schröter's *Journal für die Literatur*: 4 (1774), 153.



DE LAPIDIBVS FIGVRATIS, 1720

### 3312. — Latin, 1720.

[In red:] Iacobi A Melle | [in black:] De | [in red:] Lapidibus | Figvratibus | [in black:] Agri Litorisque | [in red:] Lvbecensis, | [in black:] Ad V. Cl. | [in red:] Iosephum Monti, | [in black:] Bononiensem, | Commentatio Epistolica. | [rule] | ΠΑΝΤΑ ΕΠΗΛΩΘΗΣΑΝ ΠΑΛΑΙ. | Xenophanes, in Philos. Orig. c. xiv. | [rule] | [in red:] Lvbecae, | [in black:] Typis Strvckianis, MDCCXX.

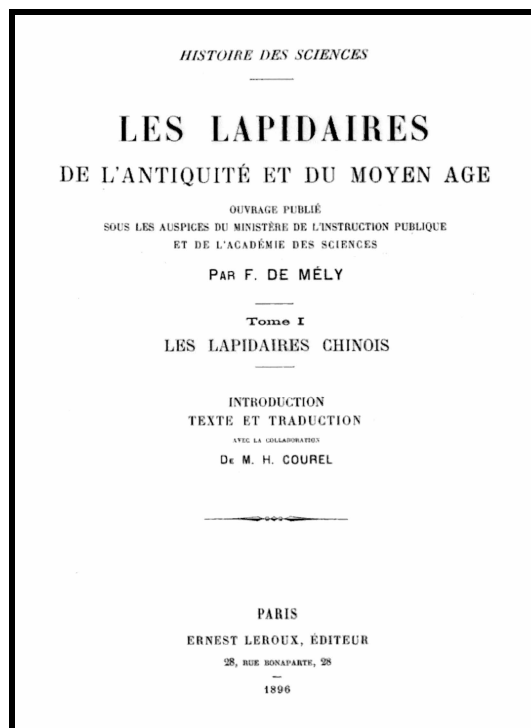
4°: A-E4 F2; 22ℓ.; [1]-44 p., 4 plates. Head- and tailpieces. PAGE SIZE: 220 x 160 mm.

CONTENTS: [1], Title page.; [2], "Clarissimo Amplissimoque | Viro, | Iosepo Monti, | In alma Studiorum Matre | Bononia | Rerum Naturalium | Indagatori solertissimo, | Iacobus a Melle | Felicitatem!" [3]-44, Text.; [At end], 4 plates.

RARE. This work describes the figured stones and petrifications originally found near Lübeck, Germany and contained in Melle's collection. The text is in an alphabetical listing of the specimens together with

commentary. Melle references many contemporary works, comparing and contrasting their theories with his own. His collection was further described in Brückmann's *Epsitolæ Itinerariæ*, 1, nos. 31, 65 & 100.

REFERENCES: Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 130. • Hoover Collection: no. 576. • LKG: XIV 142. • Range, P., "Zwei paläontologische Arbeiten aus dem Beginn des 18. Jahrhunderts," *Zeitschrift der Deutsche Geologische Gesellschaft*, 85 (1933), 684-7, 2 plates. • Schröter's *Journal für die Literatur*: 4 (1774), 150-3. • Ward & Carozzi, *Geology Emerging*, 1984: no. 1536.



LES LAPIDAIRES, 1896

**MÉLY, Fernand du Saussay de.** (BORN: 12 October 1851; DIED: 1935) *French orientalist & historian.*

REFERENCES: ABF: II 457, 256. • Internet search. • Lorenz, *Catalogue Général*, 1869-1945. • WBI.

### 3313. — French & Latin, 1896-1902.

Histoire Des Sciences | [rule] | Les Lapidaires | De L'Antiquité Et Du Moyen Age | Ouvrage Publié | Sous Les Auspices Du Ministère De L'Instruction Publique | Et De L'Académie Des Sciences | Par F. De Mély | [rule] | Tome I | Les Lapidaires Chinois | [rule] | Introduction | Texte Et Traduction | Avec La Collaboration | De M.H.Courel | [ornate rule] | Paris | Ernest Leroux, Éditeur | 28, Rue Bonaparte, 28 | [rule] | 1896.

[TOME II, FASCICULE 1:]

Tome II, Fasc 1 Histoire Des Sciences | ... | Par F.De Mély | [rule] | Tome II | Les Lapidaires

## MENDES DA COSTA

Grecs | Premier Fascicule | [rule] | Texte | Avec La Collaboration | De M.Ch.-Em.Ruelle | [ornament] | ... | 1898.

[TOME II, FASCICULE 2:]

Histoire Des Sciences | ... | Par F.De Mely | [rule] | Tome II | Deuxième Fascicule | Les Lapidaires Grecs | [rule] | Texte | Avec La Collaboration | De M.Ch.-Em.Ruelle | ... | 1899.

[TOME III, FASCICULE 1:]

Histoire Des Sciences | ... | Par F.De Mely | [rule] | Tome III | Premier Fascicule | Les Lapidaires Grecs | [rule] | Traduction | ... | 1902.

[VOL 1: 1896] 4°: [2], [i]-lxvi, [1]-300, [2], 144-1 (Chinese text in reverse page numbering), [2] p., many woodcuts in the Chinese text. [VOL 2, Fasc. 1: 1898] 4°: [i]-xvii, [1], [1]-225, [1] p., frontispiece, plate (p. xi). [VOL 2, Fasc. 2: 1899] 4°: [xix]-xxi, [1], [227]-318 p. [VOL 3, Fasc. 1: 1902] 4°: [4], [i]-lxxv, [1], [1]-140 p. PAGE SIZE: 285 x 232 mm.

CONTENTS: [Vol 1] [2 pgs], Blank, verso "Du Même Auteur."; [i-ii], Half title page, "Histoire Des Sciences | Les Lapidaires Chinois," verso "Angers.—Imprimerie A. Burdin Et Cie, 4, Rue Garnier."; [iii-iv], Title page, verso blank.; [v], Dedication to M. Berthelot, signed F. De Mély, February 1896.; [vi], Blank.; [vii]-viii, "Avertissement."; [ix]-lxvi, "Introduction."; [1], Sectional title page, "Wa Kan San Tsai Dzou Ye."; [2], Blank.; [3]-252, Text.; [253]-264, "Identifications."; [265]-300, "Table."; [2 pgs], Blanks.; 144-1, Chinese text in reverse page numbering.; [1 pg], Blank.; [1 pg], Chinese title page.

[Vol 2, Fasc. 1] [i-ii], Blank, verso "Du Même Auteur."; [Frontispiece, reproduction of Greek manuscript]; [iii-iv], Half title page, "Histoire Des Sciences | Les Lapidaires Grecs," verso printer's information.; [v-vi], Title page, verso blank.; [vii]-xvii, "Notice | Bibliographique Et Paléographique."—signed C.-E. Ruelle.; [1 pg], Blank.; [1]-212, Text.; [213]-225, "Index."; [1 pg], Blank.

[Vol 2, Fasc. 2] [xix]-xxi, "Note Additionnelle | Relative Aux Appendices." (=continuation of the previous 'Notice Bibliographique et Paléographique'); [1 pg], Blank.; [227]-315, "Appendice I. Les Cyranides."; [316], Blank.; [317]-318, "Table Des Matières | Des Appendices."

[Vol 3, Fasc. 1] [2 pgs], Half title page, "Histoire Des Sciences | Les Lapidaires Grecs," verso "Du Même Auteur."; [2 pgs], Title page, verso blank.; [i]-lxxv, "Introduction."; [1 pg], Blank.; [1]-140, Text.

VERY RARE. A monumental and often cited study of the ancient lapidaries that in spite of never being brought to completion, has become the principal authority for any researcher interested in studying the lapidary tradition. According to the advertisement to the first volume, Mély originally proposed to publish his work in five volumes comprising the texts of the Chinese, Greek, Oriental (=Arabic, Armenian, Hebrew, and Sanskrit), Latin, and Western lapidaries, together with their French translations and authoritative commentaries. Unfortunately, only the first two volumes and the first Fascicle of the third ever appeared, which cover the Chinese and Greek lapidaries. Contemporary information suggests that other portions of the text were in at different stages of preparation so it is for unknown reasons the other volumes were never published. But based on the works

rarity, especially in complete sets, it seems probably that there may not have been much demand from the public for such a large and expensive reference work of such an esoteric study.

Volume one, which covers the lapidary tradition of China, begins with a long and well referenced introduction citing sources, authorities, previous publications, the state of Chinese science and technology, medical uses of stones, and other pertinent historical information. Mély describes the main Chinese treatise on the subject as the *Wa Kan San Tsai Dzou Te*, an illustrated Sino-Japanese encyclopedia of which only the portions dealing with metals, gemstones and other stones are covered here. The original Chinese is reproduced at the end of the French translation. Then appears a large section called the "Diverse Textes" that extracts from the works of oriental and western authors information on stones and minerals. An annotated glossary of terms, a short table of weights and measures used in the Far East, and the index. Crude, but effective woodcuts of various minerals, stones, fossils, and ornamental objects made from them illustrate the text.

Volume two, which was issued in two parts, dedicates itself to the study of the ancient Greek lapidaries, including the Cyranides (or Kryanides), Damigeron, Socrates, Dionysius, pseudo-Dioscorides, pseudo-Hippocrates, "Astrampsychus" (a nautical lapidary), Epiphanius, Psellos, and the Méliténioles poem. Additions and corrections then follow, together with a Greek index. The second fascicle contains three appendices that give variants from and additions from additional manuscripts. A short table of contents concludes the volume.

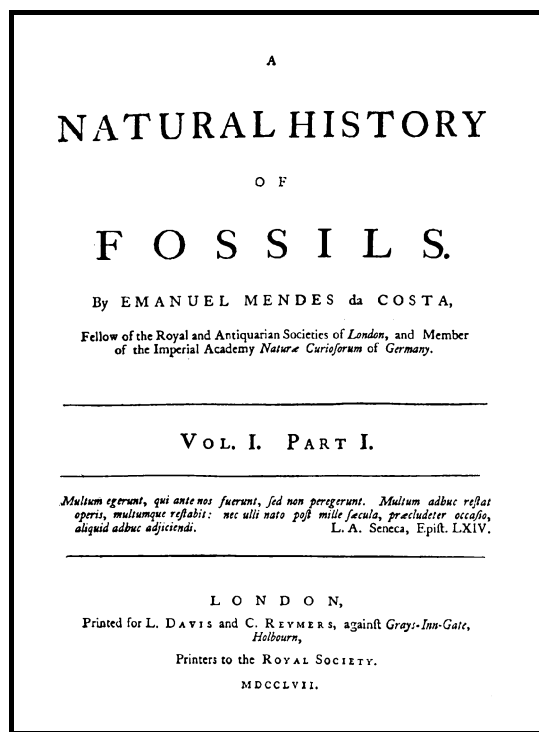
The third volume starts with a long introduction placing into context of its time the Greek lapidary, together with a very useful glossary of mineral terminology. The text provides French translations of Theophrastus' *Peri Lithon*, Strabo's *Geography*, Dioscorides' *Materia Medica*, α-Plutarch's *Treatise on Rivers and Mountains*, and finally the *Cyranides*. Sadly, publication of *Les Lapidaires* ceased before the accompanying Greek text and the commentaries were published. Never the less, if one is interested in the old stone books, Mély's compilation is essential for the study of Chinese and ancient Greek lapidaries even in its incomplete state.

REFERENCES: BL. • NUC. • Sinkankas, *Gemology Bibliography*, 1993: no. 4369.

**MENDES DA COSTA, Emanuel.** (BORN: London, England, 4 June 1717; DIED: May 1791) *English mineralogist & conchologist*.

Mendes da Costa had a wide ranging interest in natural history, and earned his living as a dealer in shells and minerals and by writing and lecturing. He also took a clerkship at the Royal Society from 1763 until 1767 when his embezzlement of subscriptions led to his imprisonment.

REFERENCES: Allibone, *Dictionary of English Literature*, 1859-71. • *American Journal of Science*: 1st Series, **37** (1839), 155. • BBA: I 298, 39; II 1421, 28; 269, 105-106. • Cleevely, *World Palaeontological Collections*, 1983: 95. • DNB: **12**, 271.



NATURAL HISTORY OF FOSSILS, 1757

3314. — English, 1757.

A | Natural History | Of | Fossils. | By  
Emanuel Mendes da Costa, Fellow of the Royal  
and Antiquarian Societies of London, and Member  
| of the Imperial Academy Naturæ Curiosorum of  
Germany. | [rule] | Vol. 1. Part I. | [rule] | [...3  
lines of quotation, signed Seneca...] | [rule] | London,  
| Printed for L. Davis and C. Reymers, against  
Grays-Inn-Gate, | Holbourn, | Printers to the  
Royal Society. | MDCCLVII.

4°: a<sup>4</sup> B-Z<sup>4</sup> Aa-Oo<sup>4</sup> Pp-Qq<sup>2</sup>; 151ℓ.; [i]-vi, [2], [1]-294 p., one plate (showing the basalt columns of Giant's Causeway). PAGE SIZE: 254 x 208 mm.

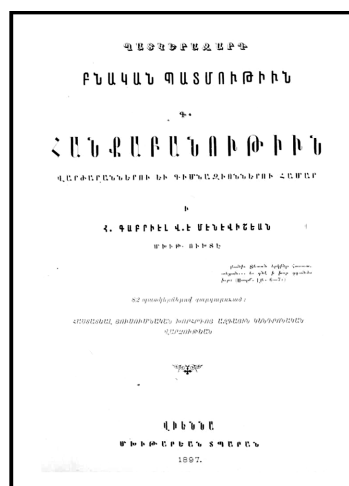
CONTENTS: [i-ii], Title page, verso blank.; [iii]-vi, "Preface."—dated 5 June 1757.; [2 pgs], "A | List | Of  
The | Subscribers.;" [Plate].; [1]-294, Text.

RARE. This is the first volume of a proposed multivolume work, which was never completed due to an insufficient number of subscribers. It contains the preface and descriptions of Earths and Stones. This volume also contains an interesting description and a

frontispiece showing Giant's Causeway, a scenic geologic outcropping of columnar basalt.

**Another issue:** Another probably later issue exists where the “Vol. 1, pt. I” has been removed from the title page. The work is in all other respects identical to the other issue.

REFERENCES: BL. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 37. • LKG: XII 50. • NUC: 375, 5 [NM 0445513]. • Roller & Goodman, *Catalogue*, 1976: 2, ?? . • Sinkankas, *Gemology Bibliography*, 1993: no. 4378. • Smith, *Early Mineralogy in Great Britain*, 1978: 52. • Ward & Carozzi, *Geology Emerging*, 1984: no. 1539. • Woodward, *History of Geology*, 1911: 17.



MINERALOGY, 1897

**MENEVISHYAN, Gabriel Gevorgi.** (BORN: 1864; DIED: 1936) *Armenian linguist & philologist.*

REFERENCES: DBA: II 876, 19. • Österreich Biographisches Lexikon. • WBI.

3315. — Armenian, 1897 [First edition].

ՎԱՏԿԵՐԱԶԱՐԳ | ԲՆԱԿԱՆ ՊԱՏՄՈՒԹԻՒՆ |  
 Գ. | ՀԱՆՔԱԲԱՆՈՒԹԻՒՆ | ՎԱՐԱՐԱՆՆԲՐՈՒ  
 ԲԻ ԳԻՄՆԱԶԻՈՆՆԵՐՈՒ ՀԱՄԱՐ | Հ. ԳԱԲՐԷԼ  
 Վ. Է ՄԷՆԷՎԻՇԵԱՆ | ՄԻԻԹ ՈՒՒՏԻ | [...6 lines of  
 text...] | [ornament] | ՎԻԷՆՆԱ | ՄԻՍԻԹԱՐԷԱՆ  
 ՏՊԱՐԱՆ | 1897.

[TRANSLITERATED TITLE READS:]

Vatkyrajarg | Bnakan Patmowt'iin | G. |  
Hank'abanowt'iwn | Varzhanneroy Ei Gianajion-  
nyrow Hamar | H. Gabriel Menevishyan | Mwit'  
Oiwti | [...6 lines of text...] | [ornament] | Vienna |  
Mkhit'arean Tparan | 1897.

8°: [8], [1]-140 p., 82 illus. PAGE SIZE: 155 x 235 mm.

CONTENTS: [2 pgs], Title page, verso blank.; [1 pg], Printing information.; [1 pg], Blank.; [3 pgs], Table of contents.; [1 pg], Blank.; [1]-140, Text.

VERY RARE. The translation of the title of this book is "Natural History: Mineralogy". After a short introduction, the minerals are described with in the following classes: elements, oxides, haloids, carbonates,

## MERCALLI

sulfates, nitrates, phosphates, and silicates. There are many quaint engravings illustrating minerals, crystals, mines and the like. It is the only mineralogical work uncovered that has been written in the Armenian language and appears to be one in a series of works written for the general public describing the natural history of Armenia.

REFERENCES: BL: [no copy listed].

**MENZEL, August.**

**3316. — German, 1845.**

[Pasted on a green card on top of the yellow wraps:]  
A. Menzel | Methodischer Handatlas | der |  
Naturgeschichte | Mineralogie | 12 Tafeln mit  
einem Blatte Text. | Zürich, | Meyer und Zeller. |  
1845.

8°: [2] p., 12 plates. Title taken from wrapper as there is no printed title page. PAGE SIZE: 222 x 148 mm.

CONTENTS: [1 pg], "Zur Erklärung der 12 mineralogischen Tafeln."; [1 pg], Blank; [At end], 12 plates.

PLATES: The first eight plates are numbered I-VIII and consist of crystal diagrams with the actual drawing in white against a black background. Plates IX-XII are unnumbered and show various geological cross sections. They may be described: Taf. I, "Tesseral=System." Taf. II, ["Tesseral=System"]. Taf. III, ["Tesseral=System"] and "Tetragonal=System." Taf. IV, ["Tetragonal=System"]. Taf. V, "Rhombisches=System." Taf. VI, "Klinorhombisches=System." Taf. VII, "Hexagonal=System." Taf. VIII, ["Hexagonal=System."] [Taf. IX], "Thätige Vulkane." [Taf. X], "Uebergangsgebirge." [Taf. XI], "Tertiäres Gebirge." [Taf. XII], "Pluto'nisches Gebirge."

RARE. Based upon the title information, these series of plates apparently belong to some larger work called the *Handatlas der Naturgeschichte*.

REFERENCES: NUC: [no copy listed].

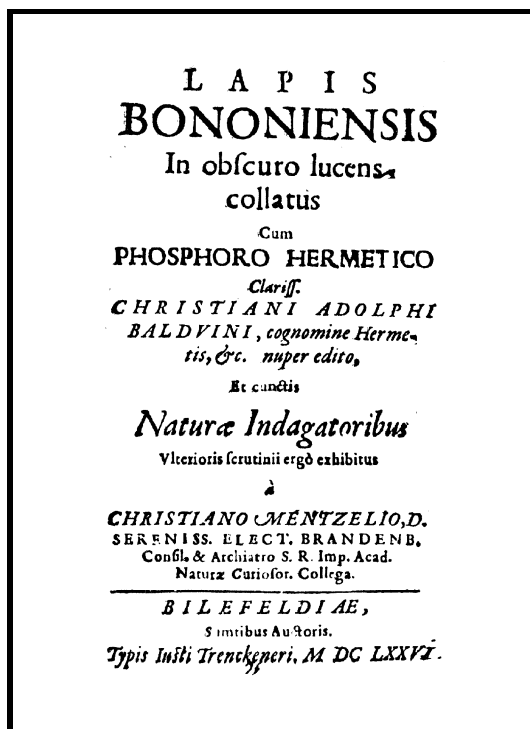
**MENTZEL (Menzel), Christian.** (BORN: Fürstenwalde, Germany, 22 June 1622; DIED: Berlin, Germany, 17 January 1701) *German physician, botanist & Chinese scholar.*

Mentzel was the personal physician to the Prince Regent Friedrich Wilhelm of Brandenburg. He was also a member of the Leopoldian Academy.

REFERENCES: ADB. • *Biographie Universelle*: 28, 327. • DBA: I 827, 378-382; II 877, 204-205. • DBE. • Ferguson, *Bibliotheca Chemica*, 1906: 2, 88. • Hirsching, *Historisch-literarisches Handbuch*, 1794-1815. • Jöcher, *Gelehrten-Lexikon*, 1750-51: 3, col. 441. • *Nouvelle Biographie Générale* (Hofer): 34, col. 1012. • Poggendorff: 2, cols. 120 & 1428. • WBI.

**3317. — Latin, 1676.**

Lapis | Bononiensis | In obscuro lucens | collatus |  
Cum | Phosphoro Hermetico | Clariss. | Christiani  
Adolphi | Baldvini, cognomine Herme- | tis, & c.  
nuper edito, | Et cunctis | Naturæ Indagatoribus  
| Vltioris scrutinii ergò exhibitus | à | Christiano  
Mentzelio, D. | Sereniss. Elect. Brandenb. | Consil.  
& Archiatro S.R. Imp. Acad. | Naturæ Curiosor.  
Collega. | [rule] | Bilefeldiæ, | Sumtibus Auctoris.  
| Typis Insti Trenckeneri. M DC LXXVI.



LAPIS BONONIENSIS, 1676

8°: [44], 77, [1] p., 2 plates, engraved title page.

RARE. In the text, Mentzel compares the luminescence properties of the naturally occurring Bologna Stone (phosphorescent barite) and a newly discovered preparation called Baldwinian Phosphor. He notes that the compound more easily absorbs light and emits at a stronger intensity than the natural stone. However, the theoretical reasons behind these observations are disguised in the language of alchemy with no rational reason provided.

Gatterer says this work was reprinted in *Ephem. Nat. Curios.*, 1 (1676), 158 ff.

REFERENCES: Ferguson, *Bibliotheca Chemica*, 1906: 2, 88. • Gatterer, *Mineralogischen Literatur*, 1798-9: 2, 13. • Harvey, *History of Luminescence*, 1957: 321-2. • LKG: XVI 112. • NUC: 376, 422-3 [NM 0454839]. • VD17: 1:642834L [dated 1675].

**MERCALLI, Giuseppe.** (BORN: Milano, Italy, 1850; DIED: Napoli, Italy, 1914) *Italian naturalist.*

Sismologo and vulcanologo, taken the sacerdotal orders and were student of the Lombardic geologist Antonio Stoppani. Graduated in natural sciences, it was taken care initially of the geologic study of I placed to you glacial of the Lombardy. Therefore he was geology university professor and mineralogy to the University of Catania and subsequently taught to volcanology and sismologia near the University of Naples. Here in the 1911 divenne director of the Vesuviano Observatory. Between its numerous studies of sismologia and volcanology the monographs are remembered the active volcanos of Earth (1889) and the studies on earthquakes of Casamicciola (1883), of the Islands Pontine (1892) and of Messina (1908).

Original; Sismologo e vulcanologo, prese gli ordini

sacerdotali e fu allievo del geologo lombardo Antonio Stoppani. Laureato in scienze naturali, si occupò inizialmente dello studio geologico dei depositi glaciali della Lombardia. Quindi fu professore di geologia e mineralogia all'Università di Catania e successivamente insegnò vulcanologia e sismologia presso l'Università di Napoli. Qui nel 1911 divenne direttore dell'Osservatorio Vesuviano. Tra i suoi numerosi studi di sismologia e vulcanologia si ricordano le monografie I vulcani attivi della Terra (1889) e gli studi sui terremoti di Casamicciola (1883), delle Isole Pontine (1892) e di Messina (1908).

REFERENCES: ABI: II 380, 287. • Resmini, C., ed., *Enciclopedia delle vite illustri*. Milano, 1962. • WBI.

### 3318. — Italian, 1885.

Elementi di Mineralogia e Geologia conformi ai Programmi Governativi per le Scuole secondarie Licei e Tecniche. Milano, Vallardi, 1885.

8°: [8], 302, [2] p., 245 illus. PAGE SIZE: 190 x 120 mm. VERY SCARCE.



STORIA NATURALE DEL REGNO MINERALE, c1888

### 3319. — Italian, c1888.

Storia | Naturale | Del | Regno Minerale | Divisa In Due Parti | Parte Prima: Mineralogia | Parte Seconda: Geologia e Paleontologia | 42 Tavole Miniate | Con Oltre 690 Illustrazioni | E Testo Esplicativo | del | Prof. Giuseppe Mercalli | Segretario della Società Italiana di Scienze Naturali. | [ornament] | Ulrico Hoepli | Editore-Librajo Della Real Casa | Milano.

2 parts in one volume. [Part 1, Mineralogy] 4°:  $\pi^1$  1-10<sup>4</sup>; 41 $\ell$ .; [2], [1]-77, [3] p., 24 chromolithographic plates (mineral specimens).

[Part 2, Geology] 4°: 1-6<sup>4</sup> 7<sup>5</sup>; 29 $\ell$ .; [1]-56, [2] p., 18 chromolithographic plates (showing geological cross sections and prehistoric creatures). PAGE SIZE: 320 x 220 mm.

CONTENTS: [Part 1] [2 pg], Title page, verso "Proprietà Letteraria."; [1], "... Introduzione."; [2], Blank.; [3]-71, Text.; [72], Blank.; [73]-77, "Indice Alfabetico."; [1 pg], Blank.; [1 pg], Table of contents.; [1 pg], Blank.; [At end], 24 plates.

[Part 2] [1]-50, Text.; [51], "Riepilogo Della Storia Della Terra."; [52], "Errata-Corrige."; [53]-56, "Indice Alfabetico."; [1 pg], "Indice | Geologia E Paleontologia."; [1 pg], Blank.

RARE. Italian translation of Kenngott's *Illustrirte Mineralogie* (Eßlingen & München, 1888), using reengraved renditions of the same plates that saw there first appearance as hand-colored plates in 1858 in J.G. Kurr's *Das Mineralreich in Bildern*. Some of the plates in this Italian edition are signed at the bottom: "Atlante Mineralogico [white space] Ulrico Hoepli, Editore, Milano."

REFERENCES: BL.

### MERCANTI, Ferruccio. (BORN: 1861; DIED: ) Italian naturalist.

REFERENCES: ABI: I 649, 183; II 380, 295-297. • De Gubernatis, *Dizionario Biografico*, 1879. • Petriella & Miatello, *Biográfico Italo-Argentino*, 1976. • WBI.

### 3320. — Italian, 1892.

Trattato Elementare di Storia Naturale Per Uso degli Istituti Tecnici. Geologia. Trattato Elementare di Storia Naturale Per Uso degli Istituti Tecnici. Mineralogia. Milano, Antica Casa Editrice Francesco Vallardi, c1892.

2 parts. [Part 1] 8°: 180 p., 84 illus. (Geologia). [Part 2] 8°: 168 p., 131 illus. (Mineralogia). PAGE SIZE: 128 x 197 mm.

VERY SCARCE. A two part textbook that covers basic geology and mineralogy. It is heavily illustrated throughout with steel engravings.

REFERENCES: BL. • NUC.

### MERCATI, Michele. (BORN: San Miniato, Tuscany, Italy, 8 April 1541; DIED: Rome, Italy, 25 June 1593) Italian botanist.

Mercati studied under ANDREAS CESALPINO at the University of Pisa. Pope Pius V named director of the Vatican botanical garden, an appointment he continued to hold under Gregory XIII and Sixtus V. He actively developed the garden. He was eventually elevated to the aristocracy by the future Grand Duke Ferdinand I of Tuscany. He was a pioneer in paleontology, and he understood the origin of stone implements at a time when they were generally considered the product of lightning.

REFERENCES: ABI: I 649, 228; I 649, 229-243; II S 54, 391. • Accordi, B., "Bibliografia italiana ragionata sulla storia delle Scienze Geologiche (a integrazione dell'opera di Gortani 1931)," *Annali Univ. Ferrara*, Sez. IX, 6 (1979), no. 1, 1-32. • Accordi, B., "Michele Mercati (1541-1593) e la Metallothea," *Geologica Roma*, 19 (1980), 1-50, 16 figs. • *Biographie Universelle*: 28, 6-7. • Capparoni, *Profilo Bio-Bibliografico*, 1928-32: 1, 48-50, portrait. • DSB: 9,





MERCATI

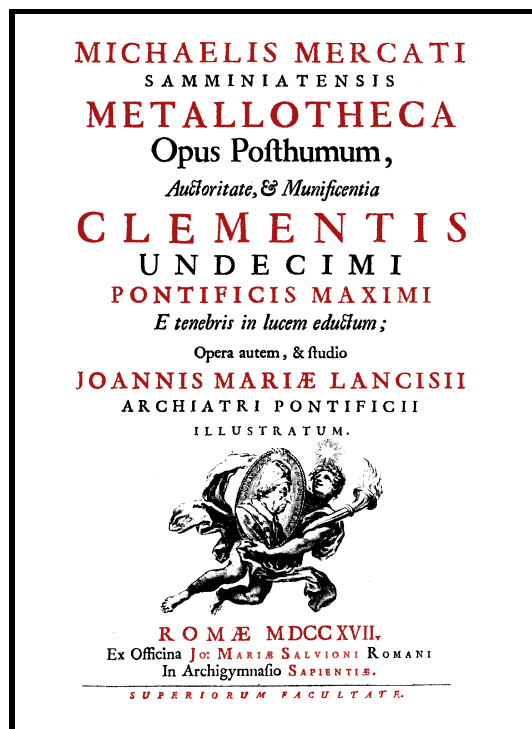
308-9 [by L. Premuda]. • Esposito-Vitolo, A., "Michele Mercati (1541-1593)," *Boll. Acc. Euteleti*, **26** (1950), 20-38. • Gemmellaro, C., "Sommi capi di una storia della Geologia sino a tutto il secolo XVIII pe' quali si detegge che le vere basi di questa scienza sono state fondate dagli italiani," *Atti Acc. Gioenia Sc. Nat.*, **18** (1862), 40 p.. • Gortani, M., "Illustrazione de fenomeni carsici nei manoscritti di Luigi Ferdinando Marsigli," *Le Grotte d'Italia*, **9** (1930), 7 p., 2 figs. • Hirsch, *Biographisches Lexikon*, 1884-8: **4**, 169-70 [by W. Haberling & J.L. Pagel]. • Lambrecht & Quenstedt, *Catalogus*, 1938: 290. • Magelli, C., "Vita Michaelis Mercati," in: *Metallotheca*, Romæ, 1719, XXI-XXVI. • *Nouvelle Biographie Générale* (Hoefer): **35**, cols. 9-10. • Pagano, R., "La Metallotheca Vaticana. Un museo, un trattato," *Rivista Mineralogica Italiana*, (1981), no. 2, 47-52. • Pieragnoli, M., *Della Vita e delle opere di Michele Mercati juniore: cenni biografici ecc.* Pisa, Tip. Ristori, S. Miniato. • Poggendorff: **2**, col. 121. • WBI. • Wilson, *History of Mineral Collecting*, 1994: 32-4.

**3321. — Latin, 1717** [First edition, issue A].

[In red:] Michaelis Mercati | [in black:] Sammini-  
atensis | [in red:] Metallotheca | [in black:] Opus  
Posthumum, | Auctoritate, & Munificentia | [in  
red:] Clementis | [in black:] Undecimi | [in red:] Pon-  
tificis Maximi | [in black:] E tenebris in lucem educ-  
tum; | Opera autem, & studio | [in red:] Joannis  
Mariæ Lancisii | [in black:] Archiatri Pontificii | Il-  
lustratum. | [in black, ornament with portrait of Pope  
Clements XI] | [in red:] Romæ M DCC XVII. | [in  
black:] Apud [in red, the following letter J, M & S] Jo:  
Mariæ Salvioni Typographum [in red:] Vaticanum  
| [in black:] In Archigymnasio [in red:] Sapientiae. |  
[black rule] | [in red:] Superiorum Facultate.

2°: [10], xiii-xliv, xlix-lxiv, 378, 18 p., frontispiece (portrait of Mercati after Tintoretto), 6 engraved plates (2 folding, including one of the museum's interior). Title page in red and black. Gaps in pagination in the preliminaries are occupied by plates. PAGE SIZE: 390 x 248 mm.

PLATES: The engraved frontispiece depicts Pope Clement XI being offered books by sycophants. It is signed, "Petrus Bianchi Roman: Inu: et del: Iacob Frey



METALLOTHECA, 1717

inc: Romæ." The portrait of Mercati shows his head and shoulders within an oval frame, with the wording underneath, "Michael Mercatus | Clementis VIII | Miniatensis | Archiater." It is signed at the bottom, "Iacobus Robusti alias Tintoretto pinx. Pet: Nellus del. Bened. Fariat Scul. Romæ super. perm."

VERY SCARCE. A landmark treatise in the history of mineralogy and metallurgy describing what was among the first organized mineralogical museums ever established. Noteworthy for excellence of style and clarity, *Metallotheca* is considerably more than a treatise on minerals and metals. It provided a uniform generic classification for all the known minerals and fossils. It also introduced a "remarkable discourse on the variations of the surface and subsurface of the earth caused by long epochs of geological evolution."

Although written in the 16th century the work was only printed for the first time under the editorship of the great physician Giovanni Maria Lancisi [1654-1720]. The volume is splendidly produced and illustrated, with many examples of earths, slates, alums, sulphur, bitumen, coral, etc., and, in the section on marbles several remarkable plates of famous statues such as Laocoon and the Apollo Belvedere.

In the service of the Popes, Mercati began to accumulate in a wing of the Museum Pio-Clementino, a collection of rocks, minerals and fossils that he called the METALLOTHECA (a complement to the *Bibliotheca*, or library). It was certainly one of the most important such collections assembled during the 16th century. Its contents were systematically arranged in 19 large,

expensive, custom built cabinets. From the beginning, Mercati worked diligently on describing the specimens, but at his death only about half of the cabinets were completed. The task then fell onto his former teacher, ANDREAS CESALPINO, who wrote *De Metallicis* (1st ed., Romæ, 1596), without any of Mercati's notes. In fact, for years after Mercati's death, the manuscript and 127 copper plate engravings remained unknown and unpublished. Then they were rediscovered by the Florentine humanist Carlo Roberto Dati [1619–1676]. He attempted to have Mercati's work published, but failed in the attempt. However, he let some among his scientist friends examine Mercati's manuscript. In this way, the *Metallotheca* became known to NICOLAUS STENO and PAOLO BOCCONE. In fact, Steno borrows the beautiful engraving of a shark's head (*Caput lami*) which he published in his own *Elementorum Myologiae Specimen* (Florentiae, 1667), quoting the source. After Dati's death, his heirs gave the Mercati manuscript material to Pope Clementi XI, who commissioned the great physician Giovanni Maria Lancisi to bring the work to publication. In this effort he was assisted by Petrus Assalti who edited the notes. The work appeared in 1717, and is almost all that remains of Mercati's wonderful collection, which was stolen or lost shortly after Mercati's death.

The copper plate engravings were executed by the Dutch goldsmith, engraver and painter Anton Eisenhoit [fl. 1570-1619] between 1572 and 1581. These remarkable illustrations make this work one of the most precious publications of the Renaissance in terms of iconography. For the text, Mercati relied principally upon the earlier works of Theophrastus, Pliny, Albertus Magnus, and Agricola. He also incorporated many notes from about a hundred of less important writers, encyclopaedists, geographer's, etc. Interestingly, Mercati provides direct observations to places he had visited including Pozzuoli, Tolfa, the Tuscany hills, and Ischia and Elba islands. But to theoretical ideas, he confines himself to Aristotelian beliefs that fossils had been created in rocks by heavenly influences of the stars in the outer spheres. Reasons as to why mountains, valleys and volcanoes exist are completely ignored.

The principal material of the text is the detailed description of specimens contained in ten show cases, which represent approximately half of the total collection. These contain respectively, (1) earths, including shales, terra rosas, kaolin earths, sands, (2) salts, including sodium & potassium chloride, saltpetre, (3) acrid juices, including vitriol, borax, malachite, azurite, realgar, (4) fat juices, including sulphur, hydrocarbons, coals, amber (5) alums, including selenite and various alums, (6) marine products, including sponges, corals, gasteropods, (7) rocks similar to earths (soft stones), including pyrolusite, volcanic tuffs, muscovite, gypsum, pumice, (8) stones derived from animals, including bezoar, deer tear, pearls, (9) idiomorphic stones, including echinoid spines, entrochi, staurolite, stalactite concretions, geodes, dendrites, belemnites, ammonites, fossil bones and teeth (10)

marbles, giving few examples. In the Appendix issued in 1719, there are information about Mercati's other works concerning plague and the obelisks of Rome as well as text about the lives of Lancisi and Assalti.

If Mercati's *Metallotheca Vaticana* had been published at the end of the 16th century, he surely would be ranked with GEORGIUS AGRICOLA and CONRAD GESNER as a founder of mineralogy and paleontology. However, when the work was finally published, its measure had been surpassed by over a century of progress. Consequently, the contemporary reviews of the time do not pass kindly on the work.

This first issue is distinguished by having the date of 1717 on the title page and not 1719. The BMC points out that a new title page dated 1719 for the whole work was issued in the *Appendix*. This title was intended to replace the original title page dated 1717. Such a copy of the *Appendix* with the extra title page is held in the special collections area of the University of Arizona Library. Based on this evidence, there are no grounds for supposing that there are two editions of the main work, one of 1717, the other of 1719. The *Appendix* is described below.

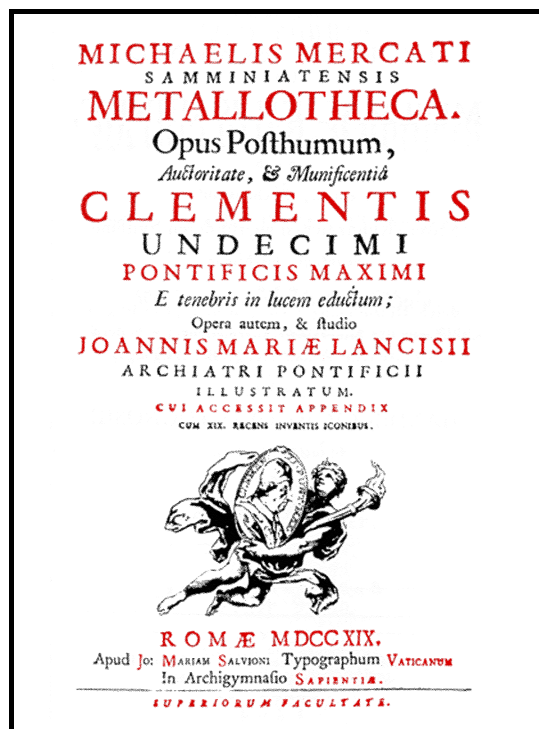
**Sebastian Conca.** (BORN: Gaeta, Italy, 8 January 1680; DIED: Naples, Italy, 1 September 1764) *Italian painter.*

**Jakob Frey.** (BORN: Hochdorf (Kt. Luzern), Switzerland, 17 February 1681; DIED: Rome, Italy, 11 January 1752) *Swiss copper engraver.*

REFERENCES: *Acta Eruditorum*: 1718, 49-52. • BMC: 3, 1288 [imperfect]. • Brunet: 3, 1644. • Cooper, A., "The museum and the book: The 'Metallotheca' and the history of an encyclopaedic natural history in early modern Italy," *Journal of the History of Collections*, 7 (1995), 1-23. • *Freilich Sale Catalog*: no. 391. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 118. • Hoover Collection: no. 581. • LKG: XV 3. • Murray, *Museums*, 1904: 1, 29, 67, 69, 82, 223 & 3, 22. • Pagano, R., "La Metallotheca Vaticana. Un museo, un trattato," *Rivista Mineralogica Italiana*, (1981), no. 2, 47-52. • Partington, *History of Chemistry*, 1961-70: 2, 92. • Partsch, *Katalog der Bibliothek*, 1851: no. 476. • Schröter's *Journal für die Liebhaber*: 3 (1776), 84-6. • Sinkankas, *Gemology Bibliography*, 1993: no. 4390. • Thorndike, *History of Magic*, 1923-58: 6, 210. • Ward & Carozzi, *Geology Emerging*, 1984: no. 1541. • Wilson, *History of Mineral Collecting*, 1994: 19, 32-4 & 217-8. (Conca) ABI: I 313, 6-21; II S 23, 58. • DBA: I 199, 193; 497, 164. • Nagler, *Neues allgemeines Künstler-Lexikon*, 1835-52. • Thieme & Becker, *Allgemeines Lexikon*, 1907-50: 7, 287-8 [other refs.]. • WBI. (Frey) Thieme & Becker, *Allgemeines Lexikon*, 1907-50: 12, 437-8.

**3322. First edition, issue B, 1719:** [In red:] Michaelis Mercati | [in black:] Samminiatisensis | [in red:] Metallotheca | [in black:] Opus Posthumum, | Auctoritate, & Munificencia | [in red:] Clementis | [in black:] Undecimi | [in red:] Pontificis Maximi | [in black:] E tenebris in lucemeductum; | Opera autem, & studio | [in red:] Joannis Mariae Lancisii | [in black:] Archiatri Pontificii | Illustratum. | [in red:] Cui Accessit Appendix | Cum XIX. Recens Inventis Iconibus. | [in black, ornament with portrait of Pope Clements XI] | [in red:] Romæ M DCC XIX. | [in black:] Apud [in red, the following letter J, M & S] Jo: Mariae Salvioni Typographum [in red:] Vaticanum | [in black:] In Archigymnasio [in red:] Sapientiae. | [black rule] | [in red:] Superiorum Facultate. 2°:  $\pi^4 b^{-e^4} f^3 g^{-h^4} A^{-Z^4} 2A-2Z^4 3A-3C^4 \chi^2$ ; 227ℓ.; [i-x], xiii-xlv, xlix-lxiv, 1-378, [18] p., frontispiece (portrait of Mercati after Tintoretto), 6 engraved plates (2 folding, including one of the museum's interior). Title page in red and black. PAGE SIZE: 390 x 248 mm.

CONTENTS: [i-ii], Half title page, "Metallotheca |



METALLOTHECA, 1719

Vaticana | Michaelis | Mercati," verso blank.; [iii-iv], Frontispiece portrait of Pope Clements XI, verso blank.; [v-vi], Portrait of Lancisium, verso blank.; [vii-viii], Title page, verso blank.; [ix-xii], Dedication to Pope Clement XI.; xii-xviii, "In Metallothecam | Vaticanam | Præfatio | Joannis Mariæ Lancisii | Archiatri Pontificii | Ad humanissimum Lectorem."; xix-xx, "Illustrissimo Viro | Jo. Mariæ Lancisco | Ab Intimo Cubiculo, | Et Archiatro Sanctissimi Pontificis | Clementis XI. | Carolus Majellus S.P.D."—dated January 1716.; xxi-xxvi, "Vita | Michaelis Mercati."; xxvii-xxviii, "Illustrissimo, ac Reverendissimo Viro | Carolo Majello | Ab Honore Sacri Cubiculi, | Et Vaticanæ tum Basilicæ Canonico, tum Bibliothecæ Præfecto. | Jo: Maria Lancisius S.P.D."; xxix-xxx, "Petrus Assaltus | Lectori suo."; xxxi-xlii, "Testimonia | Clarissimorum Virorum | De | Micaele Mercato | ..."; xlii-xlv, "Imprimatur, | ..." [=approbation]; [xlv], Blank.; [Folding plate showing the museum interior]; xlix-lii, "Clementi VIII. | Pont. Max. | Michael Mercatus." [=Epistola Dedicatoria]; lii-liv, "Benevolo | Lectori." [=preface]; lv-liv, "Auctoris | In Metallothecam suam."; [lx], Blank.; lxi-lxiv, "Index Captium." [=table of contents]; 1-378, Text.; [13 pgs], "Index Rerum, | Quæ In Hoc Opere | continentur."; [1 pg], Blank.; [1 pg], "Errata Corrige."; [1 pg], Blank.; [1 pg], "Regestum." [at bottom, Romæ MDCCXVII]; [1 pg], Blank.

PLATES: Identical to the 1717 issue A.

VERY SCARCE. This second issue is distinguished by a cancel title page bearing the date of 1719 and additional wording, as well as sometimes the inclusion in the binding of the *Appendix*, which was also issued as an independent work [see next item].

**Dissertation, 1719:** *Dissertatio ad Mercati Metallothecam in Bononiensi Scient. Acad. recitata* by Herkules Corazzi. Bononiæ, 1719. 4°. Apparently, this very rare dissertation by Corazzi [?-1726], a professor of mathematics at Turin, was based on Mercati's text. [LKG XV 4a.]

REFERENCES: Cobres, *Deliciæ Cobresianæ*, 1782: 1, 107. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 118. • Hoover Collection: no. 581. • LKG: XV 3. • Partington, *History of Chemistry*, 1961-70: 2, ??; • Thorndike, *History of Magic*, 1923-58: 6, 210. • Ward & Carozzi, *Geology Emerging*, 1984: no. 1541. • Wilson, *History of Mineral Collecting*, 1994: 19, 32-4 & 217-8.

**3323. Appendix, 1719:** [In red:] Appendix | [in black:] Ad | [in red:] Metallothecam | [in black:] Vaticanam | [in red:] Michaelis Mercati, | [in black:] In qua Lectoribus exhibentur XIX. Icones ex Typis | æneis nuper Florentiæ inventis, quorum XIV. | Pontificia liberalitate suppleti jam fuerant: | Quinque verò penitus desiderabantur. | [in red:] Additis Notis, | [in black:] Et novis Iconibus Choclearum Cornu Ammonis formâ. | [vignette] | [in red:] Romæ MDCCXIX. | [in black:] Apud [in red:] Jo: | Mariam Salvioni [in black:] Typographum [in red:] Vaticanum | [in black:] In Archigymnasio [in red:] Sapientiæ. | [black rule] | [in red:] Superiorum Facultate.

2°: π<sup>1</sup> A-F<sup>4</sup> G<sup>3</sup>; 28ℓ.; [2], [1]-53, [1] p., frontispiece (portrait of Lancisi), 20 engraved plates. Title page in red and black. Engraved initials. PAGE SIZE: 388 x 254 mm.

CONTENTS: [2 pgs], Title page, "Michaelis Mercati | Samminiatis | Metallotheca. | Opus Posthumum, | ... | Romæ MDCCXIX. | ...," verso blank.; [1-2], Title page, verso blank.; [Frontispiece portrait of Lancisium facing page 3]; 3-6, "Præfatio | Joannis Mariæ Lancisii | Archiatri Pontificii | Ad Lectorem."; 7-28, Text, consisting of superb copper engraved illustrations (220 x 142 mm.) with descriptions.; 29-53, "I. | Epistola Apologetica | De Generatione Metallorum."; [1 pg], "Syllabus | Contentorum In Appendice." [=table of contents].

PLATES: The engraved frontispiece shows a portrait of Lancisi within an oval frame and incorporating the wording at the bottom, "Archiatrium cernis, celbrat quem sama per orbem | doctrina, ingenio, moribus, eloquio: | Clementi incolumi seruando, quem Deus alto | consilio elegit, nomine Lancisium." It is signed "Sebastian Conca pinx. Iac. Frey Sc. Romæ 1718." All other illustrations within the *Appendix* are unsigned. These show corals, shells, mushrooms, a bird, fossil bones, and ancient statues of Laocoon, Apollo & Antinous.

VERY SCARCE. This is the independent issue of the *Appendix* published in 1719 for purchasers of the 1717 edition. The BMC points out that a new title page dated 1719 for the *Metallotheca* was issued in the *Appendix*. This title was intended to replace the original title page dated 1717. Such a copy of the *Appendix* with the extra title page is held in the special collections area of the University of Arizona Library. Based on this evidence, there are no grounds for supposing that there are two editions of the main work, one of 1717, the other of 1719.

REFERENCES: *Acta Eruditorum*: 1720, 169-72. • BMC: 3, 1288.

**MERRETT, Christoph.** (BORN: Winchcomb, Gloucestershire, England, 16 February 1614; DIED: London, England, 19 August 1695) *English physician & antiquarian*.

Received his M.D. from Gloucester Hall, Oxford in 1643. Held the position as the first librarian of the Royal College of Physicians, which was destroyed in the Great London Fire of 1666, at which time he lost the job. Elected a Fellow of the Royal College of Physicians in 1651, he was expelled in 1681 for non-attendance.

REFERENCES: Allibone, *Dictionary of English Literature*, 1859-71. • BBA: I 762, 320-342. • DNB: 13, 288-9. • Dodds, C., "Christopher Merrett, F.R.C.P. (1614-1695), First Harveian Librarian," *Proceedings of the Royal Society of Medicine*, 47 (1954), 1053-6. • Koinm, A.J., *Christopher Merrett: A Portrait in Miniature of Seventeenth Century Natural Science*. University of Texas, 1968. [Unpublished doctoral dissertation]. • Munk, W., *The roll of the Royal*

*College of Physicians of London*. 2nd edition. London, 1878. 3 vols. • Poggendorff: 2, col. 125 & 1428. • Raven, C.E., *English Naturalists from Neckham to Ray*. Cambridge, 1947: 298-338. • Watt, *Bibliotheca Britannica*, 1824. • WBI.

### 3324. — Latin, 1666 [First edition].

[Contained within a double rule border:] Pinax | Rerum Naturalium | Britannicarum, | Continens | Vegetabilia, Animalia | Et | Fossilia, | In hac insulâ reperta in- | choatus. | [rule] | Autore | Christophoro Merrett | Medicine Doctore urriusque Societatis Regiæ | Socio primoque Musæi Harveani custode. | [rule] | [...2 lines of quotation in Greek from Hippocrates...] | [rule] | Londini Impensis Cave Pulleyn ad Insigne Rosæ | in Cæmeteria Dive Pauli, Typis F. & | T. Warren, Anno 1666.

8°: \*8 †8 B-P8 (†2 signed A2, †4 signed A4); 127ℓ.; [32], 1-221, [1] p. PAGE SIZE: 160 x 95 mm.

CONTENTS: [2 pgs], Title page, verso "Imprimatur. | ..."; [7 pgs], Dedication to Baldi, signed Chr. Merrett, August 1666.; [21 pgs], "Lectori Salutem."—signed C.M.; [2 pgs], Blank.; 1-221, Text.; [1 pg], List of Abbreviations to Authorities.; [p. 221], "Finis."

VERY RARE. The sheets of this first edition were destroyed in the great fire of London in 1666. Only a few copies survived are now considered very rare. Most copies are therefore dated 1667. This is the earliest attempt at a classification of the plants, animals, and minerals of England. The botanical portion contains over 1,400 species. This work contains mainly lists of names and enumeration of species.

An alphabetical list of English plants with citations to other authorities is given on pages 1-127. A classification of plants ("De Planatarum Classibus") is provided on pages 128-138, while the pages to 154 give a glossary of equivalence between common plant names and their Latin nomenclature. Listings of animals and minerals occurs on pages 155-221 in a section titled, "Synopsis omnium Classisum quibus".

REFERENCES: LKG: XIV 403. • Smith, *Early Mineralogy in Great Britain*, 1978.

**3325. 2nd edition, 1667:** [Contained within a double rule border:] Pinax | Rerum Naturalium | Britannicarum, | Continens | Vegetabilia, Animalia, | Et | Fossilia, | In hac Insula reperta inchoatus. | [rule] | Editio Secunda. | [rule] | Autore | Christophoro Merrett, | Medicine Doctore utriusque Societatis | Regiæ Socio primoque Musæi Harveani Custode. | [rule] | [...2 lines of quotation in Greek from Hippocrates...] | [rule] | Londini, | Typeis T. Roycroft, Impensis Cave Pulleyn, Prostat apud | Sam. Thomson in vico vulgo dicto Ducklane. 1667.

8°: [30], 1-223, [1] p. PAGE SIZE: 150 x 90 mm. VERY SCARCE.

CONTENTS: [2 pgs], Title page, verso "Imprimatur, | ..."; [10 pgs], Dedication to Baldino Hamer, signed Chr. Merrett, August 1666.; [18 pgs], "Lectori Salutem."; 1-223, Text.; [1 pg], Abbreviations to Authorities Referred.

REFERENCES: LKG: XIV 403. • Smith, *Early Mineralogy in Great Britain*, 1978.

**MERRILL, George Perkins.** (BORN: Auburn, Maine, U.S.A., 31 May 1854; DIED: Auburn, Maine, U.S.A., 15 August 1929) *American geologist & meteorite expert.*

In 1879, after graduating from the University of Maine, Merrill became curator of mineralogy at the

US National Museum (Smithsonian). In 1897, he was appointed head curator of the division of geology, a post he held until his death. He was remarkable in gathering together material on a large scale and displaying it effectively. This was especially true of the economic minerals collection. Because of his interest in meteorites, he succeeded in building the collection into one of the world's greatest repositories.

REFERENCES: ABA: I 1104, 319-324; II 410, 190-192. • Adams, *Dictionary of American Authors*, 1904: 254. • *American Journal of Science*: 5th Series, 215 (1929), 122-3 [by M. Benjamin]. • *Annual Report of the Smithsonian Institution*: 1930, 617-34, portait [by C. Schuchert]. • *Biographical Memoirs of the National Academy of Science*: 17 (1935), 31-53 [by W. Lindgren]. • *Bulletin of the Geological Society of America*: 42 (1931), 95-122. • DAB: 6, pt. 2, 559-60. • DSB: 9, 314-6 [by K.F. Mather]. • *Herringshaw's National Library of American Biography*. • *ISIS*, 1913-65: 2, 174-5. • Lambrecht & Quenstedt, *Catalogus*, 1938: 291. • *Mineralogical Magazine*: ?? (19??), 399-400 [by L.J. Spencer]. • *National Cyclopaedia of American Biography*: 8, 35. • Poggendorff: 5, 836. • Sarjeant, *Geologists*, 1980: 3, 1706-7. • *Science*: 70 (1929), 122-3 & 274-5. • WBI. • *World Who's Who in Science*: 1165.

### 3326. — English, 1901.

Smithsonian Institution. | United States National Museum. | [short rule] | Guide To The Study Of The Collections | In The Section Of Applied | Geology. | The Nonmetallic Minerals. | By | George P. Merrill, | [...2 lines of titles and memberships...] | [short rule] | From the Report of the U.S. National Museum for 1899, pages 155-483, | with thirty plates. | [short rule] | Washington: | Government Printing Office. | 1901.

8°: pp. 155-483. Published in *Report of the U.S. National Museum for 1899*. VERY SCARCE.

REFERENCES: NUC.

### 3327. — English, 1905-7.

Catalogue of the type and figured specimens of fossils, minerals, rocks, and ores. Washington, Government Printing Office, 1905-7.

2 parts. [Part 1: 1905] 8°: 704 p. [Part 2: 1907] 8°: 370 p. Published as *Bulletin, U.S. National Museum*, 53, pts. 1-2. "Literature on type terms," part 1, p. 17-18.

VERY SCARCE. In two parts the first published in 1905 is a "Catalogue of the type specimens of fossil invertebrates in the Department of geology, United States National Museum," by Charles Schuchert, assisted by W. H. Dall, T. W. Stanton, and R. S. Bassler. The second part is a listing of the "Fossil vertebrates; fossil plants; minerals, rocks, and ores."

REFERENCES: NUC.

### 3328. — English, 1905 [First edition].

The | Non-Metallic Minerals. | Their Occurrence And Uses. | By | George P. Merrill, | [...4 lines of title and memberships...] | First Edition. | First Thousand. | New York: | John Wiley & Sons. | London: Chapman & Hall, Limited. | 1905.

8°: 414, 16 p. VERY SCARCE.

## METZGER

**2nd edition, 1910:** *The Non-Metallic Minerals*. New York, John Wiley & Sons, 1910.

REFERENCES: Dana's 7th (Bibliography): 77. • NUC.

### 3329. — English, 1916.

Smithsonian Institution | United States National Museum | Bulletin 94 | [short rule] | Handbook And Descriptive Catalogue Of | The Meteorite Collections In The | United States National Museum | By | George P. Merrill, | Head Curator of Geology, United States National Museum | [ornament] | Washington | Government Printing Office | 1916.

8°: 205 p. Published as: *Smithsonian Institution, United States National Museum*, Bulletin 94. VERY SCARCE.

REFERENCES: NUC.

### 3330. — English, 1920.

Smithsonian Institution | United States National Museum | Bulletin 109 | [short rule] | Contributions To A History | Of American State Geological And | Natural History Surveys | Edited And Compiled By | George P. Merrill, | Head Curator of Geology, United States National Museum | [ornament] | Washington | Government Printing Office | 1920.

8°: [i]-xviii, [1]-549, [1] p., 37 plates (portraits). PAGE SIZE: 240 x 150 mm.

CONTENTS: [i-ii], Title page, verso "Advertisement."; iii-v, "Preface."; [vi], Blank.; vii-xv, "Table Of Contents."; [xvi], Blank.; xvii-xviii, "List Of Portraits."; 1-544, Text.; 545-549, "Index."; [1 pg], Blank.

SCARCE. Provides the story of each of the 37 state survey's conducted in the United States up to the time of this 1920 publication. The text provides well documented histories, including excerpts from original letters. Portraits of the principal workers in these surveys enhance the value of the work.

**Related work, 1988:** *The State Geological Surveys*. A history. Arthur A. Socolow, editor. [New York?], Association of American State Geologists, 1988. [6], [1]-499, [1] p., illus. (numerous portraits). The text is divided into 50 sections with discussions of each state.

REFERENCES: NUC.

### 3331. — English, 1924.

The | First One Hundred Years | Of | American Geology | By George P. Merrill | Head Curator Of Geology | United States National Museum | [ornament] | New Haven • Yale University Press | London • Humphrey Milford • Oxford University Press | MDCCCXXIV.

8°: [i]-xxi, [1], [1]-773, [1] p., colored folding frontispiece, 35 plates (mostly portraits), 130 text illus. PAGE SIZE: 252 x 158 mm.

CONTENTS: [i-ii], Half title page, "The First One Hundred Years Of | American Geology," verso "Published ..."; [Frontispiece; facsimile reproduction of Maclure's geological map of the eastern United States, 1809.]; [iii-iv], Title page, verso "Copyright, 1924, by Yale University Press."; [v], "The | Philip Hamilton McMillan Memorial | Publication Fund."; [vi], Blank.; [vii], "Preface."; [viii],

Blank.; [ix]-xv, "Contents."; [xvi], Blank.; [xvii]-xxi, "Illustrations."; [1 pg], Blank.; [1]-664, Text.; [665], "Appendix | Letters Concerning Matters Referred | To In The Text."; [666], Blank.; [667]-734, Text of appendix.; [735]-773, "Index."; [1 pg], Blank.

SCARCE. This is an important and well illustrated history of early American geology. Merrill's opening chapters deal with the Maclurean Era, 1785-1819, so named from William Maclure who, in 1809, issued his epoch-making *Observations on the Geology of the United States*. The Eatonian Era, 1820-1829, followed with Amos Eaton, author of the geological text-book, as its chief figure. Then came the era of the State survey, extending from 1830 to 1880, to be succeeded in turn by the era of national surveys reaching to the early 20th century. In the course of the text, mention is made of several hundred contributors to the development of geology in the United States, often with accounts of their opinions, quotations from their writings and sketches of their lives. Many portraits of these researchers are included. An extensive index at the end facilitates the use of the work.

REFERENCES: *Book Review Digest*: (1924), p. 398. • NUC.

**METZGER, Hélène.** (BORN: Chatou, near Paris, France, 1889; DIED: In transit to Auschwitz, Poland, 1944) *French science historian*.

Metzger [maiden name Bruhl] showed outstanding early promise and studied mineralogy at the Sorbonne, receiving her *Diploma d'études supérieures* in physics for her *Etude cristallographique du chlorate de lithium*.

In 1913 she married Paul Metzger, a professor of history and geography, but in September 1914 he was reported missing in one of the first battles of World War I; from then on she devoted herself to research. Her doctoral thesis showed the evolution of crystallography (La genèse de la science des cristaux) and she then applied her historical methods to the whole of chemistry. In 1925 she won the Prix Bordin in philosophy for *Les concepts scientifiques* and she continued to seek out the philosophical bases of science in later work. This was interrupted by the German occupation of Paris and she moved to Lyons and worked at the Bureau d'Etudes Israélites on a study of Jewish monotheism. She was arrested in February 1944, deported to Drancy, then sent to Auschwitz.

REFERENCES: DSB: 9, 340-2. • *ISIS*, 1913-65: 2, 177.

### 3332. — French, 1918.

La Genèse | De La | Science Des Cristaux | Par | Hélène Metzger | [rule] | Paris | Félix Alcan, Éditeur | 108, Boulevard Saint-Germain, 108 | [short rule] | 1918.

8°:  $\pi^8$  2-15<sup>8</sup> 16<sup>4</sup>; 124 $\ell$ .; [1]-248 p., name index. PAGE SIZE: 230 x 148 mm.

CONTENTS: [1-2], Half title page, verso blank.; [3-4], Title page, verso Blank.; [5]-13, "... Introduction."; [14]-92, "Section I | La cristallographie se dégage peu à peu | de la minéralogie."; [93]-123, "Section II | La cristallographie se détache peu à peu | de l'étude des êtres vivants."; [124]-206, "Section III | La cristallographie se détache peu à peu | des sciences physiques."; [207]-234, "Conclusion."; [235]-242, "Liste Des Auteurs Et Des Ouvrages | Cités Ou Mentionnés Dans Ce Travail."; [243]-248, "Table Des Matières."

VERY RARE. One of the outstanding histories of crystallography and due to the rapidly deteriorating

and poor quality of paper it was printed on, the original edition may soon become extinct. This was a pioneer effort both in its subject and its approach. Essentially, it is a history of 18th century ideas, primarily French, on the nature, development and structure of crystals. The book is structured around the theme of the emergence of crystallography as a discrete and independent science in the work of Romé de l'Isle and, more particularly, Haüy. Metzger sees a fundamental development in the works of these researchers from an emphasis on explaining crystal formation in terms of grand speculative systems, to a concern with the precise description of crystal structure. Metzger's approach is novel as well and demonstrates the historical sensitivity which marked her later studies in the history of chemistry.

**Facsimile reprint, 1969:** *La Genèse | De La | Science Des Cristaux* | Par | Hélène Metzger | Nouveau tirage | Librairie Scientifique Et Technique | Albert Blanchard | 9, Rue De Médecis, Paris | 1969. 8°: [3]-248 p., name index. Modern reproduction of the rare original work with a new title page.

REFERENCES: *Ambix*: 19 (1969), 60-1 [by S.H. Mauskopf; reviews the reprint]. • BL: [07105.ff.13.].



MEUNIER

**MEUNIER, Étienne Stanislaus.** (BORN: Paris, France, 18 July 1843; DIED: Paris, France, 23 April 1925) *French mineralogist, palaeontologist, stratigrapher & chemist.*

After acting as 'préparateur' in chemistry at the Polytechnic School, Meunier in 1867 entered employment at the Natural History Museum in Paris as assistant in geology. He also acted for a time from 1880 as professor of natural history at the École Normale. In 1892, he became head of the department in the Museum with the title of professor of geology, retiring in 1920 with the title of honorary professor. He was a prolific writer and editor of several popular magazines. His chemical research was based on the artificial production of minerals, which he extended to meteoric minerals and meteorites.

REFERENCES: ABF: I 736, 168-174. • Arch. Muséum: Series 6, 2 (1926), no. 7, 49-79, portrait. • Bull. Soc. Étude Sci. Nat. Elbeuf: 1925, 125-79 [by G.F. Dollfus]. • Bull. Soc. Naturalistes Archéologues de l'Ain: no. 40 (1926), 1-6, portrait. • Lambrecht & Quenstedt, *Catalogus*, 1938: 292.

• *Mineralogical Magazine*: 21 (1927), no. 117, 245-6 [by L.J. Spencer]. • Poggendorff: 3, 905-6, 4, 994-5, 5, 839 & 6, ??? • Sarjeant, *Geologists*, 1980: 3, 1708. • WBI.

### 3333. — French, 1891.

Les | Méthodes De Synthèse | En | Minéralogie | Cours Professe Au Muséum | Par | Stanislas Meunier | [...6 lines of titles and memberships...] | [rule] | Paris | Librairie Polytechnique, Baudry Et Cie, Éditeurs | 13, Rue Des Saints-Pères. 15 | Maison A Liège, Rue Des Dominicains, 7 | [short rule] | 1891.

8°: [i]-xii, [1]-359, [1] p.

VERY SCARCE. This is a comprehensive textbook describing all aspects of synthesizing mineral compounds in the laboratory. Meunier describes the accidental creation of minerals as well as giving the scientific rationale behind mineral creation. He then provides detailed instructions for creating a large number of mineral species in the laboratory including recipes, apparatus, coloring agents, etc. The entire text is fully referenced to original citations and includes at the conclusion indexes to the names of the various authors and a comprehensive subject listing.

REFERENCES: *American Journal of Science*: 3rd Series, 43 (1892), p. 245. • Dana's 7th (Bibliography): 77. • Lambrecht & Quenstedt, *Catalogus*, 1938: p. 292. • Poggendorff: 3, 905-6, 4, ??? & 5, ???.. • Sarjeant, *Geologists*, 1980: 3, 1708.

### 3334. — French, 1919.

Les gîtes minéraux, par Stanislas Meunier ... Paris, H. Dunod et E. Pinat, 1919.

8°: [6]., xv, 384 p., illus. VERY SCARCE.

### 3335. — French, 1884.

Météorites. Paris, 1884.

532 p. : ill., maps VERY SCARCE.

### 3336. — French, 1909 [Collection catalog].

Guide dans la collection des météorites avec le Catalogue des chutes représentées au Muséum. Paris, Laboratoire de Géologie du Muséum, 1909.

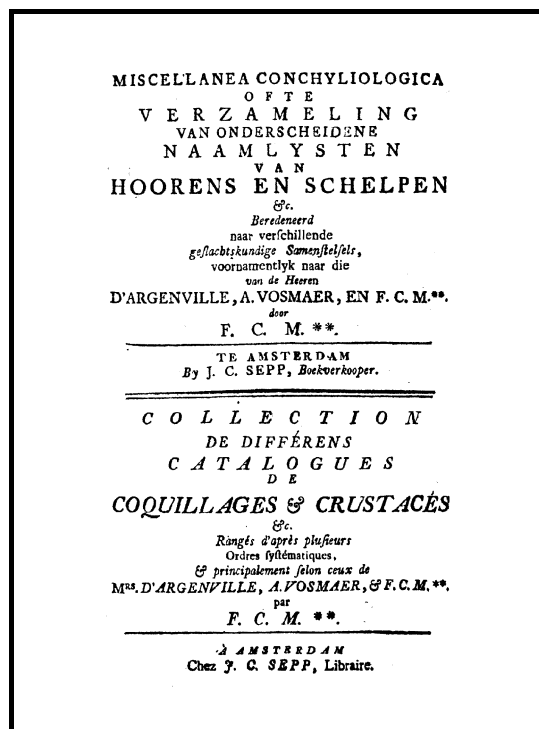
58 p. At head of title: Mus. National D'Histoire Naturelle; Chaire de géologie: M. Stanislaus Meunier. VERY SCARCE.

**MEUSCHEN, Friedrich Christian.** (BORN: 1719; DIED: c1800) *German conchologist, palaeontologist & diplomat.*

Meuschen was a diplomat in the Hague, in the capacity of the Saxon-Coburg liaison secretary. Councillor and secret secretary of the legacy at 's-Gravenhage. Meuschen was also a merchant in shells and other objects of natural history. He cataloged many important natural history collections and museums between 1766-78, which he collected together and published as the *Miscellanea Conchyliologica*.

REFERENCES: Cleavelly, *World Palaeontological Collections*, 1983: 202. • Dall, W.H., "F.C. Meuschen in the Zoophylacium Gronovianum," *The Nautilus*, 37 (1923-4), 44-52. • Engel, *Dutch Zoological Cabinets*, 1986: p. 182, no. 1032. • Schröter's *Journal für die Liebhaber*: 1 (1774), no. 2,





MISCELLANEA CONCHYLIOLOGICA, 1766

38-54. • Whitley, G.P., ?????, *Rec. Aust. Mus.*, 17 (1929), 298.

### 3337. — Dutch, Latin & French, 1766-1778.

Miscellanea Conchylologica | Ofte | Verzameling  
| Van Onderscheidene | Naamlysten | Van |  
Hoorens En Schelpen | &c. | Beredeneerd | naar  
verschillende | geslachtkundige Samenstelsels, |  
voornamentlyk naar die | van de Heeren |  
D'Argenville, A. Vosmaer, En F.C.M.\*\*. | door  
| F.C. M.\*\*. | [rule] | Te Amsterdam | By J.C.  
Sepp, Boekverkooper. | [double rule] | Collection |  
De Différens | Catalogues | De | Coquillages &  
Crustacés | &c. | Rangés d'après plusieurs | Ordres  
systématiques, | & principalement selon ceux de |  
M<sup>rs</sup>. D'Argenville, A. Vosmaer, & F.C.M.\*\*. | par  
| F.C.M.\*\*. | [rule] | A Amsterdam | Chez J.C.  
Sepp, Libraire.

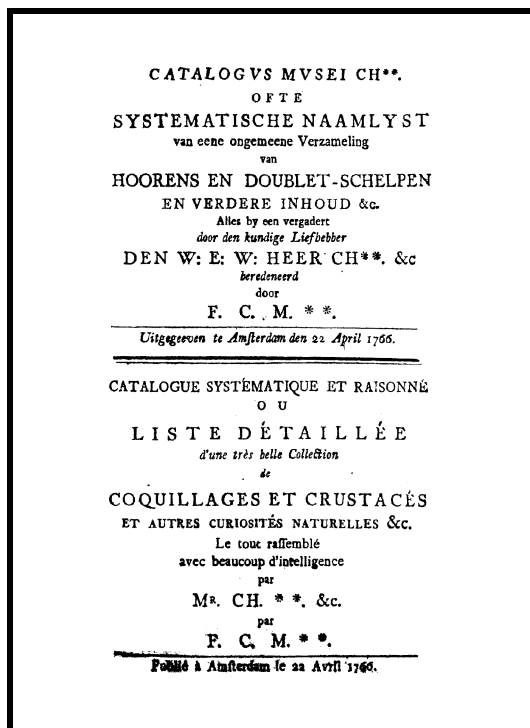
8 vols.

RARE. During his lifetime, Meuschen compiled and wrote several important catalogs of shell collections, which sometimes contained a significant mineralogical component. Besides their individual publication, each catalog was also issued with a half title indicating they were a separate volume in Meuschen's series, *Miscellanea Conchylologica*. The eight volumes of the series comprise: (1) *Catalogus Musei Chaisiani*, 1766, 116 p., (2) *Catalogus V.D.M. (Van der Mieden)*,

1766, 53 p., (3) *Catalogus V.D.M. Oudaniani*, 1766, 144 p., (4) *Catalogus V.D.M. Leersiani*, 1767, 230 p., (5) *Catalogus Dishoekiani*, 1767, 48 p., (6) *Catalogus K (Koenigani)*, 1770, 114 p., (7) *Catalogus N (Nivreltiani=Zuylen van Nivreltiani)*, 1773, 400 p., and (8) *Museum Gronovianum*, 1778, 251 p.

Those volumes pertinent to this bibliography are described in the next few entries.

REFERENCES: Engel, *Dutch Zoological Cabinets*, 1986: p. 182, no. 1032.



CATALOGVS MVSEI CH\*\*, 1766

### Miscellanea, volume 1

3338. Sale catalog, 1766: *Catalogus Musei Ch\*\**. |  
Ofte | Systematische Naamlyst | van eene ongemeene  
Verzameling | van | Hoorens En Doublet-Schelpen | En  
Verdere Inhoud &c. | Alles by een vergaderd | door  
den kundige Liefhebber | Den W: E: Heer Ch\*\* &c |  
beredeneerd | door | F.C.M. \*\*. | [rule] | Uitgegeven te  
Amsterdam den 22 April 1766. | [double rule] | Catalogue  
Système Et Raisonné | Ou | Liste Détaillée | d'une  
très belle Collection | de | Coquillages Et Crustacés | Et  
Autres Curiosités Naturelles &c. | Le tout rassemblé |  
avec beaucoup d'intelligence | par | M<sup>r</sup>. Ch. \*\*. &c. |  
par | F.C.M.\*\*. | [rule] | Publié a Amsterdam le 22 Avril  
1766.

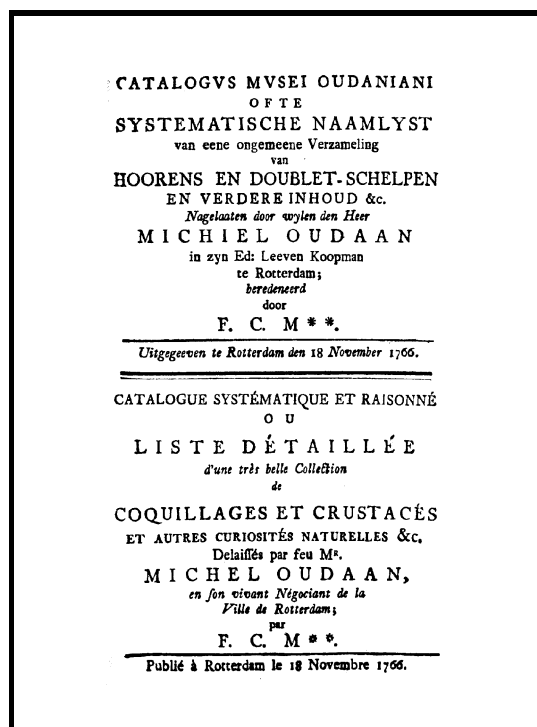
8°: 116 p.

RARE. Auction sale catalog of Charles Chais' [see note below] natural history cabinet, which included shells, fossils, zoophytes and a few minerals. The sale began on April 22nd, 1766 and included 1135 shells and 597 natural history specimens. After Chais' death, his library was sold at auction on April 10th, 1786.

Charles Pierre Chais. (BORN: Genève, The Netherlands, 3 January 1701; DIED: 's-Gravenhage, The

Netherlands, 8 October 1785) *Dutch theologian*. Pastor of Wallonian Church in 's-Gravenhage. His portrait engraved by J.E. Liotard and J. Houbraken is contained in *Bibl. theol. et philos.* (Leiden, 1900; p. 769).

REFERENCES: Cobres, *Deliciae Cobresianae*, 1782. • Wilson, *History of Mineral Collecting*, 1994: 209. (Chais) Aa, *Biographisch Woordenboek*, 1852-78: 3, 301-4. • Engel, *Dutch Zoological Cabinets*, 1986: p. 57, no. 300. • NNBW: 7, col. 295.



CATALOGVS MVSEI OUDANIANI, 1766

### Miscellanea, volume 3

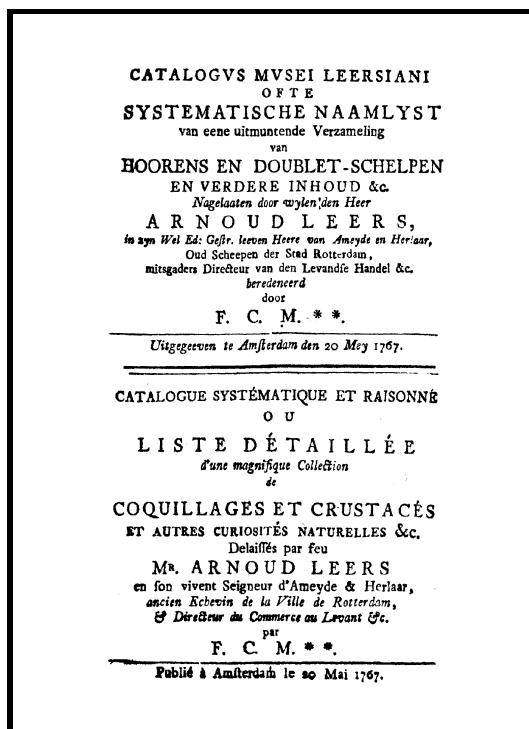
3339. Sale catalog, 1766: Catalogvs Mvsei Oudaniani | Ofte | Systematische NaamlYST | van eene ongemeene Verzameling | van | Hoorens En Doublet-Schelpen | En Verdere Inhoud &c. | Nagelaaten door wylen den Heer | Michiel Oudaan | in zyn Ed: Leeven Koopman | te Rotterdam; | beredeneerd | door | F.C. M\*\*.\*. | [rule] | Uitgegeven te Rotterdam den 18 November 1766. | [double rule] | Catalogue Systématique Et Raisonné | Ou | Liste Détaillée | d'une très belle Collection | de | Coquillages Et Crustacés | Et Autres Curiosités Naturelles &c. | Delaissés par feu M<sup>r</sup>. | Michel Oudaan, | en son vivant Négociant de la | Ville de Rotterdam; | par | F.C.M\*\*.\*. | [rule] | Publié à Rotterdam le 18 Novembre 1766.

8°: 144 p. VERY SCARCE.

REFERENCES: Murray, *Museums*, 1904: 3, 69.

### Miscellanea, volume 4

3340. Sale catalog, 1767: Catalogvs Mvsei Leersiani | Ofte | Systematische NaamlYST | van eene uitmuntende Verzameling | van | Hoorens En Doublet-Schelpen | En Verdere Inhoud &c. | Nagelaaten door wylen den Heer | Arnoud Leers, | in zyn Wel Ed: Gestr. leeven Heere van Ameyde en Herlaar, | Oud Scheepen der Stad Rotterdam,



CATALOGVS MVSEI LEERSIANI, 1767

| misgaders Directeur van den Levandse Handel &c. | beredeneerd | door | F.C.M.\*\*.\*. | [rule] | [double rule] | Catalogue Systématique Et Raisonné | Ou | Liste Détaillée | d'une magnifique Collection | de | Coquillages Et Crustacés | Et Autres Curiosités Naturelles &c. | Delaissés par seu | M<sup>r</sup>. Arnoud Leers | en son vivant Seigneur d'Ameyde & Herlaar, | ancien Echevin de la Ville de Rotterdam, | & Directeur du Commerce au Levant &c. | par | F.C.M.\*\*.\*. | [rule] | Publié à Amsterdam le 20 Mai 1767.

8°:  $\pi^7$  A-O<sup>8</sup> P<sup>2</sup>  $\chi^1$ ; 123 $\ell$ .; [7], VI-XII, 230, [2] p., [1] leaf of plates. Dutch and French in parallel columns.

RARE. Catalog of Aarnout Leers' [see note below] natural history collection. Although shells were his main focus with specimens purchased at the sale of Seba's cabinet in 1752, there were also some other natural history objects including minerals. Leers' cabinet was sold in Amsterdam on May 20th, 1767 with thousands of specimens in 2,150 lots. This catalog, edited by Meuschen, was republished in his *Miscellanea*.

A separate index in Dutch and French was prepared after the sale by Herman de Wit listing prices realized for the individual lots. It has two title pages, one in Dutch with the French version printed on the verso. They read: *Index Catalogi musei Leersiani, ofte, Aanwyzing der pryzen waar voor de nommers van de naamlyst van het kabinet der hoorens en schelpen en verdere inhoud &c. naagelaaten door wylen den wel. ed. gestr. heer Arnoud Leers ... te Amsterdam op den 20 may 1767 in de Keyzers Kroon door de makelaars N. Blinkyliet, H. de Winter en I. M. Cok verkogt zyn op het nauwkeurigste gecollationeert en uitgegeven door Herman. de Wit en Pieter Holsteyn, boekverkooppers te Amsterdam en Rotterdam. ... Index Catalogi Musei Leersiani of te Aanwyzing der Pryzen, &c. Registre du Catalogue du Cabinet de Leers, ou Specification des Prix auxquels ont été vendus chaque Numero du Catalogue du Cabinet de Coquillages & autres Curiosités Naturelles ... vendues publiquement à Amsterdam le 20 Mai*



## MEUSCHEN

1767 ... (Amsterdam, Herman de Wit & Pierre Holsteyn Librarians, 1767; 8°: A-C<sup>4</sup>; 12 leaves.; 24 p.).

**Arnout Leers.** (BORN: Rotterdam, The Netherlands, 1731; DIED: Rotterdam, The Netherlands, 1785) *Dutch tradesman*. Leers was director of the Levant trade in Rotterdam. He also inherited the estate of Arnout van den Bergh, lord of Ameide, Herlaar and Tienhoven, who died childless in 1733.

REFERENCES: BMC: 3, 1079. • Cobres, *Deliciae Cobresianae*, 1782. • Dance, *Shell Collecting*, 1966; p. 85, 230 & 238. • Wilson, *History of Mineral Collecting*, 1994: 216. (Leers) BAB: 399, 49. • Engel, *Dutch Zoological Cabinets*, 1986: p. 152, no. 898. • WBI. • Wurzbach, *Biographisches Lexikon Österreich*, 1856-91.

### Miscellanea, volume 7

**3341. Sale catalog, 1773:** Catalogue Systématique et Raisonné d'une Superbe Collection d'Objets des trois Règnes de la Nature. Consistant en animaux à mammelons; oiseaux; amphibies; poissons; insectes; coquillages; litophytes et zoophytes; plantes; fruits et minéraux. Comme aussi en magnifiques statues d'ivoire garnie de pierres précieuses et autres; pierres antiques taillées en relief et gravées en creux, et bustes en bronze, ou en pierre; agates orientales, &c. tableaux modelés en circ; miniatures, dessins et autres raretés &c. Le tout rassemblé avec des peines & dépenses infinies pendant nombre d'années, par \*\* ... Amsterdam, J.C. Sepp, 1773.

8°: xiv, 400, [6] p. Text in French and Dutch. PAGE SIZE: 180 x 108 mm.

RARE. Auction catalog of the substantial natural history cabinet of the Dutchman Philippus Julius van Zuylen van Nyevelt [1743-1826]. Included at the end is a smaller selection of art work. The preface explains the taxonomic systems and literature employed in the unusually detailed descriptions of the objects. In addition, there are *objets d'art* such as coins, medals, statues, porcelain, miniatures and drawings. The sale occurred in Amsterdam beginning on 9 November 1773 and continued on subsequent days at the home of Arnaud Dankmeyer. The agents conducting the sale were N. Blinkvliet, Ph. van der Schley, and P. Posthumus. Cobres (1782) records that there were two issues of the catalog, differing only on the title page; one giving the initials of the collector and compiler, the other, as above, not.

REFERENCES: BL: [956.g.6.]. • Cobres, *Deliciae Cobresianae*, 1782: 1, 139. • Engel, *Dutch Zoological Cabinets*, 1986: no. 1032 & 1746. • Gatterer, *Mineralogischen Literatur*, 1798-9. • Jutting, *History of Conchological Collections*, 1939: 222, 230 & 239. • NUC: [no copy listed]. • Wilson, *History of Mineral Collecting*, 1994: 186 & 219.

### Miscellanea, volume 8

**3342. Sale catalog, 1778:** Museum Gronovianum. Sive index Rerum Naturalium tam Mammalium Amphibiorum Piscium Insetorum Conchyliorum Zoophytorum Plantarum & Mineralium exquisitissimorum quam Arte factarum nonnullarum. Inter quæ eminet Herbarius Siccus Plantarum a Tournefortio Claitonio Linnaeo aliisque Botanicis collectarum. Quæ omnia multa cura & magnis sumptibus sibi comparavit Vir Amplissimus & Celeberrimus Laur. Theod. Gronovius .... Leiden: Theo. Haak, 1778.

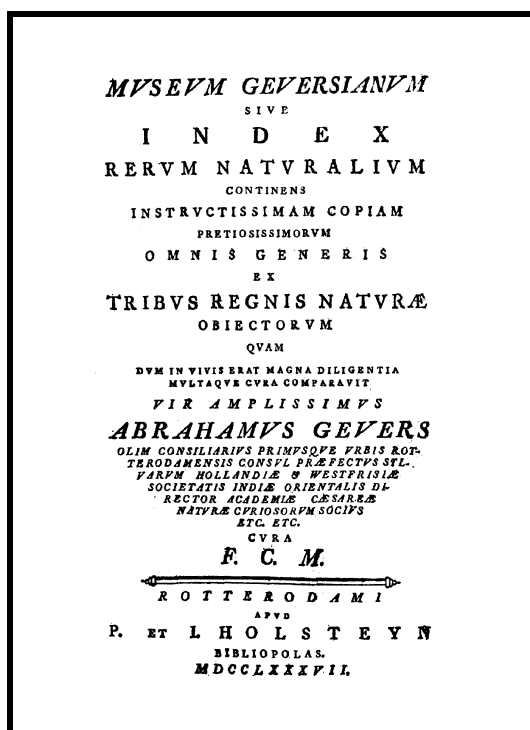
8°: 255 p.

RARE. Edited by F.C. Meuschen with the assistance of P. Boddaert, this sale catalog represents the collection of Laurence Theodore Gronov [see note below]. Incorporated into the collection were some specimens inherited from his father's collection.

**Lorenz Theodor Gronov.** (BORN: Leiden, The Netherlands, 1 June 1730; DIED: Leiden, The Netherlands, 8 August 1777) *Dutch lawyer & naturalist*. Lorenz was the son of JOHANN FRIEDRICH GRONOV. Councillor and alderman of Leiden, he possessed an extensive cabinet of corals,

fishes, lower animals, insects, reptiles, mammals, shells, stones, plants, etc. Elected a Fellow of the Royal Society of London in 1763, Gronov's library was sold on 5 October 1778, followed by his Museum on the 7 October.

REFERENCES: BL: [955.b.38.]. • Murray, *Museums*, 1904: 2, 269. • Wilson, *History of Mineral Collecting*, 1994: 213. (Gronov) Aa, *Biographisch Woordenboek*, 1852-78. • BAB: 278, 327-333. • Engel, *Dutch Zoological Cabinets*, 1986: 580-1. • Jöcher, *Gelehrten-Lexikon*, 1750-51. • Kobus, *Biographisch Woordenboek*, 1886: 1, 635-6. • Kobus, *Biographisch Woordenboek*, 1886. • Poggendorff: 1, cols. 957-8. • Stafleu & Cowan, *Taxonomic Literature*, 1976-88. • WBI. • Wilson, *History of Mineral Collecting*, 1994: 173.



MVSEVM GEVERSIANVM, 1787

**3343. — Latin & French, 1787 [Sale catalog].**

Mvsevm Geversianvm | Sive | Index | Rervm Natvralivm | Continens | Instrvctissimam Copiam | Pretiosissimorum | Omnis Generis | Ex | Tribvsv Regnis Natvræ | Obiectorum | Qvam | Dvm In Vivis Erat Magna Diligentia | Mvltaqve Cvra Comparavit | Vir Amplissimvs | Abrahamvs Gevers | [...7 lines of titles and memberships...] | Cvra | F.C.M. | [ornate rule] | Rotterodami | Apvs | P. Et I. Holsteyn | Bibliopolas. MDCCLXXXVII.

8°: [i]-iv, [1]-659 p. In Latin and French.

RARE. Catalog of the Abraham Gevers [see note below] collection that was auctioned on 12 September 1787, or seven years after Gevers death. The mineralogy section, arranged according to the system of Wallerius, lists 636 lots in parallel columns of Latin and French,

is followed by 204 lots of petrifications. Descriptions include habit, locality, associated species, plus a reference, usually to Wallerius.

**Abraham Gevers.** (BORN: Rotterdam, The Netherlands, 2 September or 30 August 1712; DIED: Rotterdam, The Netherlands, 15 October 1780) *Dutch Burgomaster*. Burgomaster of Rotterdam. Director of the Dutch East India Company. He built a natural history collection that included birds, shells, insects and minerals.

REFERENCES: BMC: 3, 1296. • Gatterer, *Mineralogischen Literatur*, 1798-9. • Lugt, *Repertoire des Catalogues*, 1938-53: no. 1221. • Murray, *Museums*, 1904: 2, 254. • Wilson, *History of Mineral Collecting*, 1994: 172 & 212. (Gevers) Cleavelly, *World Palaeontological Collections*, 1983: 128. • Engel, *Dutch Zoological Cabinets*, 1986: p. 94, no. 518. • Sherborn, *Where is the — Collection?*, 1940: ??.

**MEYER, Georg.**

**3344. — German, 1595-7.**

Bergwercks Geschöfft/ und | wunderbare Eigenschaft der Metalsfrüchte. | Darinẽ grund= | licher Bericht Der Gebrige/ | Gestein/ Gange vnd derselben an= | hengenden safften/ krefften and wirkung/ | als an Gold/ Silber/ Kupffer/ Zinn/ Bley/ | Quecksilber/ Eisen/ vnd anderen | Mineralien. | Auch wie die Edlen Gestein/ | so wol die Metals arten geferbet/ er= | kand/ vnd mit Gottes Wort vergli= | chen werden. | Vornemlich dem Allmechtigen | Gott zu lobe/ vnd aller Christlichen | Obrigkeit zu ehren/ auch menniglichen zu | nutz vnd guter nachrichtung in | Druck verfertiger | Durch | Georgen Meyern. | M. D. XCV. | Cym Gratia Et Privilegio.

8°: [16], 168, [6] p. Title in red and black. Implied imprint: Leipzig, Abraham Lamberg for Henning Grosse, 1595.

VERY RARE. Only edition. Among the books on mining published in the sixteenth century, the one by Georg Meyer is one of the rarest. In contrast to the works by Agricola, Entzelt, Matthesius, and Ercker, it hardly ever appears on the market. The book is dedicated to the Emperor Rudolph II, the patron of Tycho Brahe and Kepler who was a strong supporter of alchemy. At the beginning is a 4 1/2 page poem in praise of miners. The text is then divided into thirteen chapters dealing with ores, metals, minerals, antimony, mercury, bismuth, sulphur, salt, and saltpeter, with a short section on glassmaking in the last chapter.

REFERENCES: BL: [446.a.36.]. • Koch, *Geschichte bergmännischen Schrifttums*, 1963: p. 45 and no. 328. • LKG: III 33. • Wellcome Catalog (Books): 1, no. 4313.

**MEYER, John F.**

See: Columbia College, New York.

**MICHEL-LÉVY, Auguste.** (BORN: Paris, France, 17 August 1844; DIED: Paris, France, 24 September 1911) *French petrologist & mineralogist*.

Michel-Lévy was a brilliant student, and is today called one of the pioneers of microscopic petrology. His interest turned to geology, and in 1862 he matriculated at the Polytechnic School, then entered the School of

Mines, from which he graduated at the head of his class in 1867. From 1870 he made his career with the government Geological.

REFERENCES: ABF: II 464, 242-244. • Barr, *Index to Biographical Fragments*, 1973: 177. • DSB: 9, 366-7. • Poggendorff: 4, 877-8. • Sarjeant, *Geologists*, 1980: 3, 1713-4. • WBI. • *World Who's Who in Science*: 1173.

**3345. — French, 1888.**

Les | Minéraux | Des Roches | 1° Application Des Méthodes Minéralogiques Et Chimiques | A Leur Étude Microscopique | Par | A. Michel Lévy | Ingénieur en chef des mines, | Directeur du service de la Carte géologique détaillée de la France. | 2° Données Physiques Et Optiques | Par A. Michel Lévy et Alf. Lacroix | [rule] | Avec 218 figures dans le texte et une planche coloriée. | [ornament showing a polarizing microscope] | Paris | Librairie Polytechnique, Baudry Et C<sup>ie</sup>, Éditeurs | 15, Rue Des Saints-Pères, 15 | Maison A Liège, Rue Lambert-Lebègue, 19 | [short rule] | 1888 | Tous droits réservés.

8°: [i]-xi, [1], [1]-334, [2] p. PAGE SIZE: 242 x 150 mm.

CONTENTS: [i-ii], Half title page, verso blank.; [iii-iv], Title page, verso blank.; [v]-vi, "Avant-Propos."; [vii]-viii, "Introduction."; [ix]-xi, "Table Des Matieres."; [1 pg], Blank.; [1]-327, Text.; [328], Blank.; [329]-334, "Index."; [plate?—missing from copy examined]; [1 pg], "Errata."; [1 pg], "Évieux, Imprimerie De Charles Hérissay."

VERY SCARCE. An excellent early textbook on microscopical mineralogy and petrology that contains much original research. The first portion deals with the theoretical aspects of the study and was authored by Michel-Lévy. The second section dealing with the physical and optical data for all important species was written by both authors.

REFERENCES: *American Journal of Science*: 3rd Series, 37 (1889), 414-5.

**3346. — French, 1889.**

Tableaux | Des | Minéraux Des Roches | Résumé De Leurs Propriétés | Optiques, Cristallographiques Et Chimiques | Par | A. Michel Lévy | [...3 lines of titles and memberships...] | Et | A. Lacroix | [...2 lines of titles and memberships...] | [ornate rule] | Paris | Librairie Polytechnique Baudry et C<sup>ie</sup>, Éditeurs | 15, Rue Des Saints-Pères, 15 | Maison A Liège, 7, Rue Des Dominicains, 7 | [short rule] | 1889.

4°: ?? p. (unpaginated).

RARE. These tables form a useful supplement to the authors' *Minéraux des Roches* (Paris, 1888). The material given in the previous work is here published in a convenient tabular form.

REFERENCES: *American Journal of Science*: 3rd Series, 40 (1890), 259-60.

**MIERS, Henry Alexander.** (BORN: Rio de Janeiro, Brazil, 25 May 1858; DIED: London,

## MILLER

England, 10 December 1942) *English mineralogist & crystallographer*.

Born the son of a civil engineer, Miers won scholarships at Eton and Oxford, where he studied the classics and science. He graduated in 1881 with second-class honors in mathematics. Although he had no formal training in crystallography, within a year Miers had through short stays with N. STORY-MASKELYNE, W.J. LEWIS and P. VON GROTH enough expertise in the science to apply and be accepted in a position as an assistant at the British Museum. There working under L. FLETCHER he was primarily concerned with the descriptions of crystal forms. For these studies, Miers constructed an ingenious inverted goniometer for measuring crystal faces while they were growing in solution. In 1895, Miers accepted a professorship in mineralogy at Oxford. There, he continued to refine the apparatus until he and his students were able to determine the concentration of solution at the growing crystal face through the index of refraction calculated from total reflection. In 1908, Miers accepted the first of many administrative appointments that eventually pulled him away from scientific work. An adventuresome streak led him to travel extensively including visits to the Klondike, South Africa and Russia. Miers was elected F.R.S. in 1896 and knighted in 1912. Among many honors, he also awarded the Wollaston Medal by the Geological Society of London.

REFERENCES: *Annual Register*. • Barr, *Index to Biographical Fragments*, 1973: 177. • BBA: I 766, 5-9; II 1656, 341. • Cleavelly, *World Palaeontological Collections*, 1983: 203. • DNB: Suppl. 1941-50, 588-90 [by H.T. Tizard]. • DSB: 9, 379-80 [by William T. Holser]. • *ISIS*, 1913-65: 2, 182. • *Mineralogical Magazine*: 27 (1944), 17-23. • *Obituary Notices of the Royal Society*: 12 (1943). • Poggendorff: 4, 1009-10 & 5, 852-3 & 6, ??? • Sarjeant, *Geologists*, 1980: 3, 1715-6. • WBI. • *World Who's Who in Science*: 1175-6.

### 3347. — English, 1902 [First edition].

Mineralogy | An Introduction To | The Scientific Study Of Minerals | By | Henry A. Miers | [...4 lines of titles and memberships...] | With Two Coloured Plates And 716 Illustrations In The Text | London | Macmillan And Co., Limited | New York: The Macmillan Company | 1902 | All rights reserved.

8°: [i]-xviii, [1]-584 p., 2 color plates, 716 illus. PAGE SIZE: 220 x 142 mm.

CONTENTS: [i-ii], Half title page, "Mineralogy," verso logo of The Macmillan Company; [iii-iv], Title page, verso blank.; v-vi, "Preface."—signed Henry A. Miers.; vii-xviii, "Contents."; [1]-6, "Introduction."; [7], "Part I | The Essential Properties Of Minerals | Book I | The Crystalline Properties."; [8], Blank.; [10]-186, Text.; [187], Book II | The General Properties.; [188], Blank.; [189]-210, Text.; [211], "Book III | The Relations Between The Properties | Of Minerals."; [212], Blank.; [213]-241, Text.; [242], Blank.; [243], "Book IV | The Description And Determination Of | Minerals."; [244], Blank.; [245]-287, Text.; [288], Blank.; [289], "Part II | Description Of The More Important | Mineral Species."; [290], Blank.; [291]-534, Text.; [535]-561, "Tables | General Survey of the Mineral Kingdom."; [1 pg], Blank.; Plate I, showing blue, green and red interference figures of a cross section of orthoclase.; [1 pg], "Description Of Plates."; [1 pg], Blank.; Plate II, showing interference figure of the same specimen in white light.; 563-584, "Index."

SCARCE. Drawing heavily upon Edward S. Dana's *System of Mineralogy* (6th ed., New York, 1896), this is an introductory textbook on mineralogy. For its time it contains excellent discussions of crystal optics as treated by Lazarus Fletcher in *The Optical Indicatrix* (London,

1892). An appendix discusses the theoretical internal structure of crystals, which was a special interest of Miers.

2nd edition, 1929: Mineralogy | An Introduction To | The Scientific Study Of Minerals | By | Sir Henry A. Miers | [...2 lines of titles and memberships...] | Second Edition | Revised By | H.L. Bowman | [...3 lines of titles and memberships...] | With 716 Illustrations In The Text | Macmillan And Co., Limited | St. Martin's Street, London | 1929. 658 p., illus.

Prepared by H.L. Bowman [??-??]. This mineralogy text covers the character and properties of minerals in two parts; Part I - Properties of Minerals - Book I Crystalline Properties of Minerals (8 chapters), Book II General Properties of Minerals (2 chapters), Book III Relations between Chemical Composition and Properties of Minerals (1 chapter), Book IV Intimate Structure of Crystals (2 chapters), Book V Description and Determination of Minerals (2 chapters); Part II - Description of the More Important Mineral Species - covering all the mineral groups in 27 sections from Section I (Elements) to Section XXVII (Tungstates, Niobates and Nitrates), profusely illustrated - 761 figures, 13 tables and index.

REFERENCES: Dana's 7th (Bibliography): 77. • NUC.

3348. French transl., 1906: Manuel Pratique | De | Minéralogie | Introduction | A | L'Etude Scientifique Des Minéraux | Par | Henry A. Miers | [...4 lines of titles and memberships...] | Traduite De L'Anglais | Par | O. Chemin | [...2 lines of titles and memberships...] | [rule] | Avec 716 figures dans le texte et 2 planches en couleurs. | [rule] | Paris et Liège | Librairie Polytechnique, Ch. Béranger, Éditeur | Successeur De Baudry Et Cie | Paris, 15, Rue Des Saints-Pères, 15 | Liège, 21, Rue De La Régence, 21 | [short rule] | 1906 | Tous droits réservés.

8°: x, 685 p., 716 illus., 2 colored plates. PAGE SIZE: 245 x 160 mm. SCARCE.

REFERENCES: NUC.

### MILLER, James. *English chemist*.

REFERENCES: BBA: I 768, 48-49. • Watt, *Bibliotheca Britannica*, 1824. • WBI.

### 3349. — English, 1794.

A Synopsis of Mineralogy, rendered easy and familiar, in a variety of the most useful, as well as most entertaining Processes, or Operations, on Mineral Bodies. By James Miller. [London:] G. Nicol, [1794].

2°: 26ℓ., listing 13 tables.

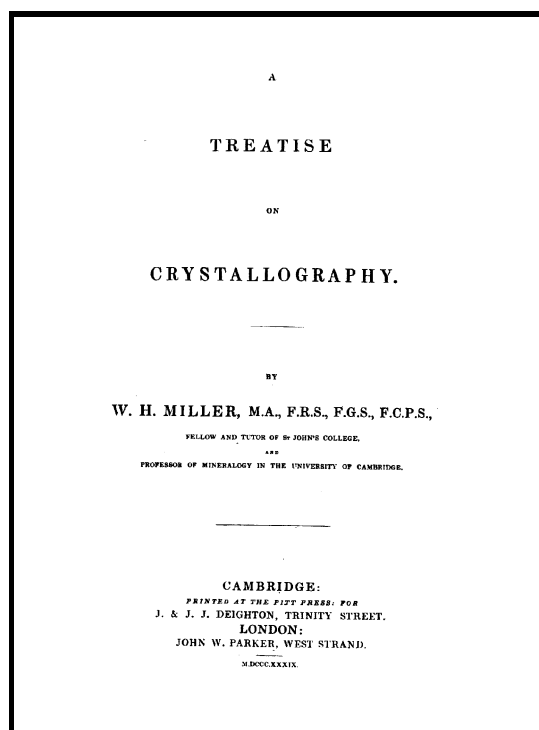
VERY RARE. Designed to concisely describe all of the major concepts of mineralogy by use of thirteen comparative tables, this folio was possibly written in conjunction with a series of mineralogy lectures.

REFERENCES: BL: [33.h.1.]. • Dryander, *Catalogus Banks*, 1796-1800: 4, p. 13. • *English Review*: 23 (1794), 338. • LKG: XII 135.

MILLER, William Hallows. (BORN: Velindre near Llandovery, Carmarthenshire, Wales, 6 April 1801; DIED: Cambridge, England, 20 May 1880) *Welsh crystallographer*.

Miller was educated at St. John's College, Cambridge, where he graduated in 1826 as fifth wrangler. For a few years he acted as a college tutor, and on the resignation of W. WHEWELL he succeeded in 1832 to the chair of mineralogy at Cambridge, a post which he occupied until 1870. Miller was elected a Fellow of the Royal Society in 1838. In 1843, he assisted the committee appointed to superintend new standards in weights and measures.

REFERENCES: *Annual Register*. • Barr, *Index to Biographical Fragments*, 1973: 178. • BBA: I 768, 289-298; II 1658, 125. • Cleavelly, *World Paleontological Collections*, 1983: 204. • *Dictionary of Welsh Biography*: 633 [by R.T. Jones]. • DNB: 13, 430-1. • DSB: 9, 392-3 [by D. McKie]. • *Encyclopaedia Britannica*, 11th edition. • *ISIS*, 1913-65: 2, 184. • *Nature*: 22 (1880), 247-9 [by N. Story-Makelyne]. • *Neues Jahrbuch für Mineralogie, Geologie und Paläontologie*: Jg. 1881, 1 (1881), 1-6 [by M. Bauer]. • Poggendorff: 2, cols. 151-2, 3, 915. • *Proceedings of the American Academy of Arts & Sciences*: 16 (1881), 460-8 [by J.P. Cooke]. • *Proceedings of the Geological Society*, London: 1881, 37-235, plates I-XVI [by R. Etheridge]. • *Proceedings of the Royal Society of London*: 31 (1881), ii-vii [by T.G. Bonney]. • Sarjeant, *Geologists*, 1980: 3, 1724. • WBI. • *World Who's Who in Science*: 1183.



TREATISE ON CRYSTALLOGRAPHY, 1839

### 3350. — English, 1839.

A | Treatise | on | Crystallography. | [rule] |  
By | W.H. Miller, M.A., F.R.S., F.G.S., F.C.P.S.,  
| Fellow And Tutor Of St John's College, | and  
| Professor Of Mineralogy In The University Of  
Cambridge. | [rule] | Cambridge: | Printed At The  
Pitt Press: For J. & J.J. Deighton, Trinity Street.  
| London: John W. Parker, West Strand. | [rule] |  
M.DCCC.XXXIX.

8°:  $\pi^4$  1-17<sup>4</sup> 182; 74 $\ell$ .; [i]-vii, [1] errata, [1]-139,  
[1] p., 10 plates (showing 149 mostly crystal drawings).  
PAGE SIZE: 222 x 138 mm.

CONTENTS: [i-ii], Title page, verso blank.; [iii]-iv,  
"Advertisement."; [v]-vii, "Contents."; [1 pg], "Errata.";  
[1]-139, Text.; [1 pg], Blank.; [At end], 10 plates.

VERY SCARCE. This work is the basis on which all modern crystallographic notation rests. Extending the previous work of WILLIAM WHEWELL, Miller asserted that crystallographic reference axes must parallel crystal edges. His method of indexing crystal faces is based on a plane (111) intercepting the crystallographic axes at a, b, c such that the ratio along the reference axes is a/h: b/k: c/l, where h, k, l, are integers. This was an improved interpretation over the previous work of CHRISTIAN SAMMUEL WEISS and C.F. NAUMANN, and the advantages of "Miller Indices," as they became known, was almost immediately apparent. None of the previous notational schemes were as easy to apply or as widely accepted as this method, which is still accepted today.

The text is divided into ten chapters: I. General Geometrical Properties of Crystals, II. Octahedral System, III. Pyramidal System, IV. Rhombohedral System, V. Prismatic System, VI. Oblique Prismatic System, VII. Doubly-Oblique Prismatic System, VIII. Twin Crystals, IX. Goniometers, &c., and X. Drawing Crystals and Projections.

REFERENCES: Dana's 7th (Bibliography): 77. • NUC: 384, 535 [NM 0593276]. • *Philosophical Magazine*, 3rd Series: 16 (1840), 65-7.

3351. French transl., 1842: *Traité | De | Cristallographie, |* Par W.-H. Miller, | [...3 lines of titles and membership...] | Traduction Française | Par H. de Senarmont, | Ingénieur des Mines. | [tapered rule] | Paris, | Bachelier, Imprimeur-Libraire | De L'École Polytechnique, Du Bureau Des Longitudes, Etc., | Quai Des Augustins, N° 55. | [short rule] | 1842.

8°: [i]-xv, [1], [1]-208 p., 12 plates.

CONTENTS: [i-ii], Half title page, "Traité | De | Cristallographie," verso "Cet ouvrage se trouve aussi: ..."; [iii]-iv, Title page, verso blank.; [v]-viii, "Avertissement Du Traducteur."; [ix]-x, "Avertissement Du L'Auteur."; [xi]-xv, "Table Des Matères."; [1 pg], "Errata."; [1]-208, Text.

RARE. Translated by H. DE SENARMONT from A *Treatise on Crystallography* (Cambridge, 1839).

REFERENCES: BL: [no copy listed]. • NUC: 384, 535 [NM 0593275].

3352. German transl., 1856: *Lehrbuch | der | Krystallographie | von | Professor W.H. Miller. | [ornate rule] | Uebersetzt und erweitert | durch | Dr. J. Grailich, | Assistenten am k.k. physikalischen Institute und Privatdocenten für mathematische Physik | und Krystallographie und der k.k. Universität zu Wien. | [double rule] | Mit einem Hefte von XIX Kupfertafeln. | [ornate rule] | Wien. | Druck und Verlag von Carl Gerold's Sohn. | 1856.*

Text and atlas. [Text] 8°:  $\pi^4$  b<sup>2</sup> 1-20<sup>8</sup> 214; 170 $\ell$ .; [i]-xii, [1]-328 p.; [Atlas] 4°: 19 plates (2 folding). PAGE SIZE: 210 x 138 mm.

CONTENTS: [Text] [i-ii], Title page, verso blank.; [iii], Dedication.; [iv], Blank.; [v]-ix, "Vorwort des Uebersetzers"—signed Dr. Grailich, 16 June 1856.; x, "Marignac, Recherches ..."; [xi]-xii, "Inhaltsverzeichnis."; [1]-328, Text.

[Atlas] No copy examined.

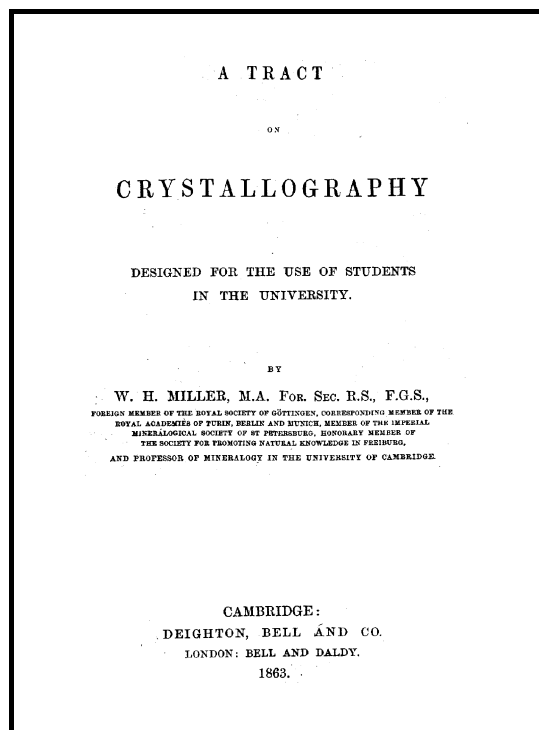
VERY SCARCE. Translation by WILHELM JOSEPH GRAILICH from A *Treatise on Crystallography* (Cambridge, 1839). The translator added a chapter dealing with the optical characters of various mineral species and laboratory products.

REFERENCES: Dana's 7th (Bibliography): 77. • NUC: 384, 535 [NM 0593268].

An Elementary Introduction to Mineralogy. New edition, with extensive alterations and additions, by H.J. Brooke

## MILLIN

and W.H. Miller. (London, 1852).  
See: Miller, William Hallows.



TRACT ON CRYSTALLOGRAPHY, 1863

### 3353. — English, 1863.

A Tract | on | Crystallography | Designed For  
The Use Of Students | In The University. | By  
| W.H. Miller, M.A. For. Sec. R.S., F.G.S., | [...5  
lines of titles and memberships...] | Cambridge: |  
Deighton, Bell And Co. | London: Bell And Daldy.  
| 1863.

8°:  $\pi^4$  1-5<sup>8</sup> 6<sup>4</sup>; 48 $\ell$ .; [i]-viii, [1]-86, [2] p. PAGE  
SIZE: 218 x 144 mm.

CONTENTS: [i-ii], Title page, verso "Cambridge: |  
Printed By C.J. Clay, M.A. | At The University Press."; [iii]-iv, "Introduction."; [v]-viii, "Contents."; [1]-86, Text.; [2], Publisher's list.

VERY SCARCE. Written as an introduction to the author's *A Treatise on Crystallography* (Cambridge, 1839), this volume contains the derivations and proofs of the crystallographic calculations used to produce Miller Indices. There are also some additional theorems concerning crystalline properties in general, which were not published in the original *Treatise*.

REFERENCES: *American Journal of Science*: 2nd Series, 37 (1864), 148. • Dana's 7th (Bibliography): 77. • NUC: 384, 535 [NM 0593274].

3354. German transl., 1864: Eine Abhandlung | über | Krystallographie. | Von W.H. Miller, | Professor der Mineralogie an der Universität zu Cambridge. | Für Studierende der Mathematik und der Mineralogie | aus dem Englischen übersetzt | von | Dr. P. Joerres, | Rektor der

höhern Knabenanstalt zu Ahrweiler. | [ornate rule] | Bonn, | Verlag von A. Henry. | 1864.

8°:  $\pi^3$  1-3<sup>8</sup> 4<sup>3</sup>; 30 $\ell$ .; [i]-vi, [1]-53, [1] p., 3 plates. PAGE SIZE: 235 x 140 mm.

CONTENTS: [i-ii], Title page, verso blank.; [iii]-iv, "Einleitung."; [v]-vi, "Inhalt."; [1]-53, Text.; [1 pg], Blank.

VERY SCARCE. Translation by P. Joerres [see note below] of *A Tract on Crystallography* (London, 1863).

P. Joerres. (BORN: ; DIED: ) .



MILLIN

MILLIN, Aubin Louis. (BORN: 1759; DIED: 1818)  
*French naturalist.*

REFERENCES: ABF: I 742, 226-243; II 466, 298. • Feller, *Biographie Universelle*, 1851. • *Nouvelle Biographie Générale* (Hoefler). • WBI.

### 3355. — French, 1790 [First edition].

Minéralogie | Homérique, | Ou | Essai Sur  
Les Minéraux, | Dont il est fait mention dans  
les | Poèmes d'Homere. | Par A.L. Millin de  
Grandmaison. | [ornament] | A Paris, | Chez  
Lavillette, Libraire, Hôtel de | Bouthilliers, rue des  
Poitevins. | [double rule] | M. DCC. XC.

8°:  $\pi^7$  A-G<sup>8</sup> H<sup>2</sup>; 66 $\ell$ .; [i]-xiv, [1]-118 p.

CONTENTS: [i-ii], Half title page, "Minéralogie |  
Homérique," verso blank.; [iii-iv] Title page, verso  
dedication.; [v]-xii, "Avant-Propos."; xiii-xiv, "Table |  
Des Articles."; [1]-105, Text.; 106-111, "Minéralogie  
Homérique."; 112-115, "Index Des Auteurs."; 116-118,  
"Table Des Matieres."

RARE. Discusses the ancient mineralogy of Homer and his books the *Iliad* and the *Odyssey*. The text is arranged by the mineral substance discussed including precious stones and metals. A classification is then given by Millin followed by an indexes of authors and works mentioned and mineral names.

REFERENCES: *Katalog Bergakademie Freiberg*, 1879: p. 453 [VI. 140.]. • LKG: II 13. • NUC.

3356. 2nd edition, 1816: Minéralogie | Homérique, | ou | Essai Sur Les Minéraux, | Dont il est fait mention dans les Poèmes | d'Homère; Par A.L. Millin. | [...3 lines of titles and memberships...] | Seconde Édition. | [tapered

rule] | A Paris, | Chez C. Wasmann, Libraire, | Rue de Thionville, n.º 27. | [double rule] | 1816.

8º: π8 ★2 1-128 134; 114ℓ.; [1]-8, [ix]-xvii, [2], [1]-199, [1] p. VERY SCARCE.

CONTENTS: [1-2], Half title page, "Mineralogie | Homérique," verso "De L'Imprimerie De J.B. Sajou, | ..."; [3-4], Title page, verso blank.; [5]-8, Dedication to Blumenbach signed A.L. Millin.; [ix]-xvii, "Avant-Propos."; [2 pgs], "Explication | Des Médailles."; [1]-186, Text.; [187]-199, "Table Des Matières."; [1 pg], "Errata."

REFERENCES: Dewalque, Gustav., *Catalogue des Ouvrages de Géologie, de Minéralogie et de Paléontologie ainsi que des Cartes Géologiques qui se trouvent dans les principales bibliothèques de Belgique*. Liège, 1884. xii, [2], 394 p: no. 351. • *Katalog Bergakademie Freiberg*, 1879: p. 453 [VI. 140.]. • *Leonard's Taschenbuch*: 1817, p. 602. • NUC.

**3357. German transl., 1793:** *Mineralogie des Homer*, von Aubin Louis Millin. Aus dem Französischen mit Anmerkungen und Berichtigungen von Friedrich Theodor Rink ... Königsberg und Leipzig, Bey Friedrich Nicolovius, 1793.

8º: 22, [2], 126 p.

RARE. Translation by Friedrich Theodor Rink of *Minéralogie Homérique* (Paris, 1790). A bibliography of works cited occurs on pages 115-120, "Verzeichnis der Schriftsteller und ihrer Ausgaben welche in diesem Werke angeführt sind."

**Friedrich Theodor Rink.** (BORN: 1770; DIED: 1821) *German orientalist & theologian*.

REFERENCES: *Katalog Bergakademie Freiberg*, 1879: p. 453 [VI. 115.]. • LKG: II 14a. • NUC. • Ward & Carozzi, *Geology Emerging*, 1984: no. 1582. (Rink) ADB. • DBA: I 1039, 323-333. • Hamberger & Meusel, *Gelehrte Teutschland*, 1796-1834. • Jöcher, *Gelehrten-Lexikon, Supplement*. • Recke, Johann Friedrich von and Karl Eduard., *Allgemeines Schriftsteller- und Gelehrten-Lexikon der Provinzen Livland, Esthland und Kurland*. Mitau, 1827-32. 4 vols. [A supplement, *Nachträge und Fortsetzungen* was prepared by Theodor Beise. Mitau, 1859-61. 2 vols.]. • WBI.

**MILN, Robert.** *English theologian*.

REFERENCES: Allibone, *Dictionary of English Literature*, 1859-71. • BBA: I 769, 302. • Watt, *Bibliotheca Britannica*, 1824. • WBI.

**3358. — English, 1768.**

A | Course | Of | Physico-Theological | Lectures | Upon The | State of the World, | From The | Creation to the Deluge. | [rule] | By Robert Miln, A.M. | [rule] | [...2 lines of quotation...] | [double rule] | Carlisle: | Printed by J. Milliken: | And sold by R. Faulder, Bookseller, New Bond-street, | London. | [rule] | MDCCLXXXVI.

8º: [i]-[xxv], [1], [1]-383 p.

CONTENTS: [i-ii], Title page, verso blank.; [iii]-viii, "Preface."; [ix]-[xxv], "Subscriber's Names."; [1 pg], Blank.; [1]-383, Text.

VERY SCARCE. A theological treatment of the earth's geology. The text, divided into 12 lectures, takes sections from the Bible and analyses geology based upon its theological basis.

REFERENCES: LKG: XIII 163. • NUC.

**MILNE, John.** (BORN: 1850; DIED: 1913) *English mine engineer*.

John Milne was born in Liverpool in 1850 and attended the Royal School of Mines, graduating as a mining engineer. In 1875 he accepted an appointment as Professor of Mining Engineering and Geology in the Imperial College

of Engineering in Tokyo. He became expert in the new science of seismology, invented the seismograph, and wrote two important books on seismology, one a textbook (Earthquakes and other Earth Movements, 1891) and a famous illustrated report on The Great Earthquake in Japan, 1891, 1891.

After twenty years in Japan, he returned to England, settling upon the Isle of Wight where he established a seismological station, and where he died in 1913. It was here that he first attempted to measure the velocity of earthquake waves passing through the deeper layers of the crust, but in this attempt he was only partially successful. Azimov, *Biogr. Encycl. Sci & Techn.*, p.372-3.

REFERENCES: BBA: I 769, 369-373. • WBI.

**3359. — English, 1880** [Collection catalog].

[Contained within an ornate double bordered box:] Catalogue | Of | The Minerals, Rocks, Fossils, Shells, And Casts. | Contained In | The | Geological Department | Of | The Imperial College Of Engineering | (Kobu-dai-gakko). | Tokei: | Printed At The College. | 1880.

[6], i-iv, 1-183, [1] p. PAGE SIZE: 216 x 148 mm.

CONTENTS: [2 pgs], Title page, verso blank.; [1 pg], "Collection | Of | Japanese Minerals."; [1 pg], Blank.; [1 pg], "Introduction."—signed John Milne, 18 May 1880.; [1 pg], Blank.; I-IV, "Index."; 1-183, Text of catalogue.; [1 pg], Blank.

RARE. This *Catalogue* is a description of specimens held in the collections of the Imperial College in Tokyo, Japan. Unfortunately the text was printed on an extremely perishable paper and few copies have survived to the present day. The classification of these minerals is similar to that given in Dana's *Manual of Mineralogy*. The short descriptions which are appended to many of these specimens must not be considered as having reference to anything farther than the particular specimen to which they are attached, and this more especially true in the case of specimens like coals, where to judge of the coals of a district from the description of one small specimen might lead to serious mistakes. In many cases there are a large number of specimens of the same species but which have been obtained from different localities, these are classed together according to the provinces, the a provinces being classed together according to Gobi Shichido. With each group of minerals a number of localities are mentioned from which specimens have not yet been obtained. These localities are without numbers.

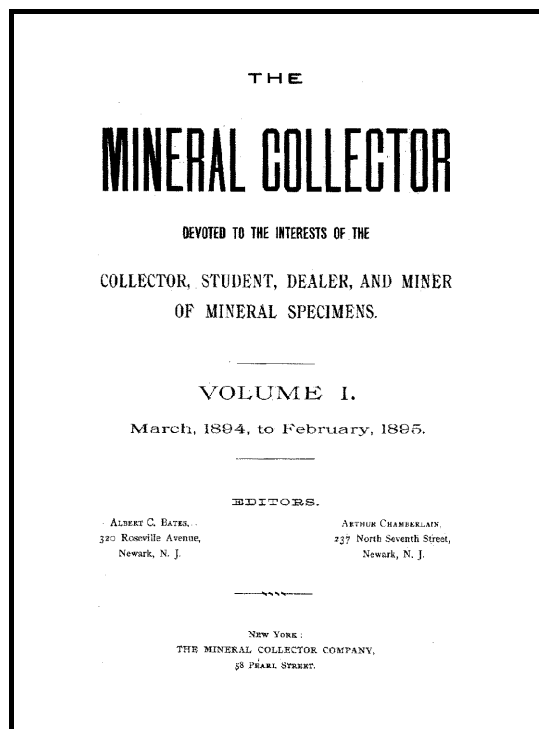
REFERENCES: NUC.

**MINERAL COLLECTOR.**

**3360. — English, 1894-1909** [Periodical].

The | Mineral Collector | Devoted To The Interests Of The | Collector, Student, Dealer, An Miner | Of Mineral Specimens. | [wavy rule] | Vol. 1, No. 1—March, 1894. | [wavy rule] | Contents. | ...11 lines of titles and memberships... | [rule] | Published By | The Mineral Collector Company, | 56 Pearl St., New York.

Vol. 1, no. 1 (March, 1894)-vol. 15, no. 12 (Feb., 1909).



THE MINERAL COLLECTOR, 1894

VERY RARE as issues and extremely rare in complete sets. Edited by ARTHUR CHAMBERLAIN and later with ALBERT CHAPIN BATES this magazine succeeded *Minerals. A Monthly Magazine*. Chamberlain was a collector of minerals from his boyhood days and a printer and publisher by profession. Together with several brothers he was partner in a printing establishment in New Jersey. These facts combined with his interest in sharing knowledge of minerals led Chamberlain in 1883 to become involved in his first magazine to further the hobby. The publications he fathered changed names several times and grew in size and character with each change until the *Mineral Collector* was founded. It lasted from March 1894 until February 1909 at which time Chamberlain wrote:

"This will be the last number of the magazine. As most of my readers know, it has not been a paying proposition, but still on account of pleasant acquaintances secured, and in some instances staunch friends made through its publication, I have been loath to discontinue it. However, years grow apace and I feel that I owe it to my health to ease up a little on my strenuousness. Almost a quarter of a century ago I started my first monthly, and I have been in harness ever since. As all the work has been done on evenings and holidays, so as not to interfere with my other work, and as I always set all the type myself, I have hardly known a leisure hour in all these years."

The *Mineral Collector* was faithfully published once a month for 15 years and its over 6,000 pages con-

tain much valuable and anecdotal information that can be found nowhere else. It may safely be said that its publication parallels the first golden age of mineral collecting, and that its pages helped to further that remarkable period. At this time there were a large number of active collectors and the supplies of good quality specimens from all parts of the world but especially the western United States was large. These were offered for sale by several now legendary east coast dealers at modest prices to keep the enthusiasm of collectors at high intensity and there advertisements abound in the pages of this magazine. There are also reports of new finds and notes on scientific discoveries. Much is owed to Arthur Chamberlain for his remarkable magazines.

**Facsimile reprint, 1980s:** Lawrence H. Conklin produced a fine reprint of the complete 15 year run of *The Mineral Collector* in the 1980s and early '90s.

**Albert Chapin Bates.** (BORN: Providence, Rhode Island, U.S.A., 1857; DIED: Newark, New Jersey, U.S.A., 5 May 1931) *American merchant & mineralogist*. Bates was a businessman who worked in the hardware business in New York City for over 50 years, but one of his interests in life was the collection of minerals, in which he made a specialization of collecting and studying quartz. His mineral collecting reminiscences published in the early numbers of *Rocks and Minerals* are a treasure, preserving first hand accounts of the mineral collecting scene of late 19th century America. He was elected to membership in the Newark Mineralogical Society in February 6, 1916 at the fifth meeting of the society.

**Arthur C. Chamberlain.** (BORN: ; DIED: after 1916) *American publisher*. Chamberlain was the owner of The Chamberlain Printing Company of Jersey City, New Jersey, which operated from the 1890s to at least 1909. He was an enthusiastic mineral collector, and involved in the editing and publishing of several American magazines devoted to the hobby.

REFERENCES: Bates, A.C., "Arthur Chamberlain and his magazines," *American Mineralogist*, 1 (1916), no. 1, 1-2. • King, V.T., "A One Hundred and Five Year History of 'The Mineral Collector'," *Matrix*, 7 (1999), no. 3, 117-124. (Bates) *Rocks & Minerals*: 6, (1931), 51 [obituary]. (Chamberlain) *Mineral Collector*: 15 (1909), no. 12, 177.

## MINERAL SPECIES.

### 3361. — German, 1846.

Controverse über die Frage: Was ist Mineral-species? veranlaßt durch die im Herbste 1845 beim Grundbau der St. Nikolaikirche in Hamburg entdeckten Krystalle, nebst einer Charakteristik des Struivits. Hamburg, 1846.

4°. VERY SCARCE.

REFERENCES: Partsch, *Katalog der Bibliothek*, 1851: no. 244.

## MINERALOGIE.

### 3362. — German, 1814.

Die | Mineralogie | nach | ihren neuesten Ansichten | dargestellt. | [ornate rule] | [...9 lines of Latin quotation, signed on the tenth line Plin. hist. nat....] | [tapered rule] | Wien, 1814. | In Commission des cosmographischen Bureau.

8°. VERY SCARCE.

## DIE MINERALOGIE.

## 3363. — German, 1814.

Die | Mineralogie | nach | ihren neuesten Ansichten | dargetellt. | [ornate rule] | [...9 lines of Latin quotation, signed Plin. hist. nat. l. 2. c. 63...] | [tapered rule] | Wien, 1814. | In Commission des cosmographischen Bureau.

8°: 1-10<sup>8</sup> 11<sup>2</sup>; 82<sup>l</sup>.; [1]-164 p. PAGE SIZE: 182 x 105 mm. uncut.

CONTENTS: [1-2], Half title page, verso blank.; [3-4], Title page, verso blank.; [5]-6, Preface.; 7-164, Text.

RARE. The text provides a review of recent discoveries in mineralogy, crystallography and paleontology. It is divided into five sections covering the earths (pp. 9-85), salts (pp. 86-91), combustibles (pp. 92-100), metals (pp. 101-158) and petrifications (pp. 159-164).

REFERENCES: BL.

## MINERALOGISCHE BELUSTIGUNGEN.

## 3364. — German, 1768-71 [Periodical].

Mineralogische | Belustigungen, | zum Behuf | der | Chymie und Naturgeschichte | des Mineralreichs. | Erster Band. | [ornament] | [rule] | Leipzig, | bey Joh. Friedrich Heineck und Faber, | Buchhändler in Copenhagen. | 1768.

6 vols. [VOL 1: 1768] 8°: a<sup>6</sup> b<sup>2</sup> A-Ll<sup>8</sup> Mm<sup>6</sup>; ??<sup>l</sup>.; [16], [1]-544, 12 p. (folding plate, p. 347). [VOL 2: 1768] 8°: \*<sup>2</sup> A-Ll<sup>8</sup> Mm<sup>4</sup> Nn<sup>4</sup>; ??<sup>l</sup>.; [4], [1]-547, [13] p. (folding plates, pp. 78, 418 and 448). [VOL 3: 1769] 8°: π<sup>2</sup> A-Hh<sup>4</sup>; ??<sup>l</sup>.; [4], [1]-478, [10] p., 3 folding plates (at end). [VOL 4: 1769] 8°: \*<sup>4</sup> A-Ii<sup>8</sup> Gg<sup>4</sup> Hh<sup>3</sup>; ??<sup>l</sup>.; [8], [1]-470, [8] p. (folding plates, pp. 25, 43, 47, 194, 303 and 307). [VOL 5: 1770] 8°: \*<sup>3</sup> A-Hh<sup>8</sup> Ii<sup>4</sup> Kk<sup>3</sup>; ??<sup>l</sup>.; [6], [1]-504, [6] p., 4 folding plates (at end). [VOL 6: 1771] 8°: π<sup>4</sup> A-Gg<sup>8</sup> Hh-Ii<sup>4</sup>; ??<sup>l</sup>.; [8], [1]-486, [10] p. (folding plates, pp. 140, 206, 260, 310, 364 and 422).

CONTENTS: [Vol 1] [2 pgs], Title page, verso blank.; [10 pgs], "Vorrede | des Herausgebers."—dated Sept., 1767.; [4 pgs], "Inhalt.;" [1]-544, Text.; [12 pgs], "Register."

[Vol 2] [2 pgs], Title page, verso blank.; [2 pgs], "Inhalt.;" [1]-547, Text.; [12 pgs], "Register.;" [1 pg], Blank.

[Vol 3] [2 pgs], Title page, verso blank.; [2 pgs], "Inhalt.;" [1]-468, Text.; 469-478, "Erklärung der Kupfer.;" [10 pgs], "Register."

[Vol 4] [2 pgs], Title page, verso blank.; [4 pgs], "Vorrede.;" [2 pgs], "Inhalt.;" [1]-470, Text.; [8 pgs], "Register."

[Vol 5] [2 pgs], Title page, verso blank.; [4 pgs], "Inhalt.;" [1]-504, Text.; [6 pgs], "Register."

[Vol 6] [2 pgs], Title page, verso blank.; [4 pgs], "Vorrede.;" [2 pgs], "Inhalt.;" [1]-486, Text.; [6 pgs], "Erstes Register.;" [4 pgs], "Zweytes Register."

RARE. Edited by Johann Christoph Adelung [see note below], this "Mineralogical Amusements" is an early periodical devoted to mineralogical subjects. It was intended as a forum for the knowledgeable mineralogist and those that were interested in the subject. As such, the six volumes cover all aspects of

mineralogical studies and include articles of amateur and scientific character, with papers authored by the great mineralogists of the day including Pott and Lehmann.

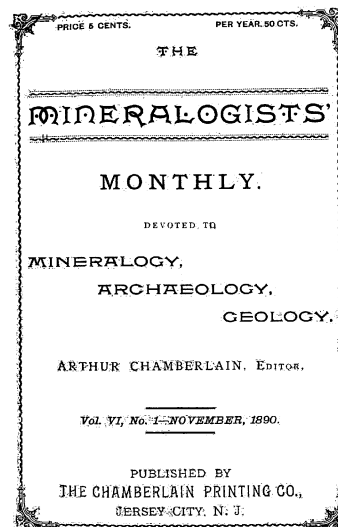
**Johann Christoph Adelung.** (BORN: Spantekow, Pommern, Germany, 30 August 1734; DIED: Dresden, Germany, 10 September 1806) *German lexicographer & philologist*. Adelung studied originally for theology, but found he was more attracted to literature and philology. He became professor at the Erfurt Gymnasium and later head of the library at Dresden; wrote, *Versuch eines vollständigen Grammatisch-Kritischen Wörterbuches der Hochdeutschen Mundart* (Berlin, 1774), a dictionary of German that was compared favorably to the dictionary of Dr. Johnson. However, "Adelung's is superior ... in its definitions, and in all that relates to etymology" (Thomas).

REFERENCES: *Allgemeine Deutsche Bibliothek*: 8, no. 1, 285. • *Alt. gel. Merc.*: 1769, 322 and 386. • *Berlinische Sammlungen*: 3, 641-2. • *BMC*: 3, 1317. • *Freilich Sale Catalog*: no. 8. • *Göttingische gelehrte Anzeigen*: 1768, 414 & 1769, 192 and 1024 & 1770, 576. • *Halle gelehrte Zeitung*: 1770, 521. • *Jenaische gelehrte Zeitungen*: 1769, 106 and 547 & 1770, 795. • *Journal encyclopédique*: 8 (1769), 477 & 1 (1770), 312. • *Leipziger gelehrte Zeitung*: 1768, 46. • *LKG*: VI 43. • *Sinkankas, Gemology Bibliography*, 1993: no. 4504. • *Vogel's Neue Medicinische Bibliothek*: 7, 277. (Adelung) ADB. • *DBA*: I 6, 6-33. • *Encyclopaedia Britannica*, 11th edition. • *Hamberger & Meusel, Gelehrte Teutschland*, 1796-1834. • *NDB*: 1, 63-5 [by O. Basler]. • *Poggendorff*: 1, col. 12. • *Thomas, Dictionary of Biography*, 1884: 54. • *WBI*.

## MINERALOGISCHE JAHRESHEFTE.

Mineralogische Jahreshefte. Edited by Ernst Glocker. (Nürnberg, 1833-41).

See: Glocker, Ernst Friedrich.



MINERALOGISTS' MONTHLY, 1886

## MINERALOGIST'S MONTHLY.

## 3365. — English, 1886-93 [Periodical].

Mineralogists' Monthly. Devoted to Mineralogy, Archaeology, Geology, and Miscellaneous Reading. Jersey City, New Jersey, 1886-March, 1893.†

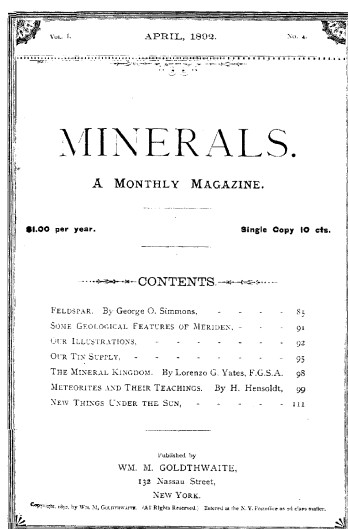


## MINEROPHILO FREIBERGENSEI

8 vols. Vol. 1, no. 1 (Oct. 1886)-vol. 8, no. 5 (Mar. 1893).

VERY SCARCE. The *Mineralogist's Monthly* was Arthur Chamberlain's first venture into collector periodicals for American mineral collectors. Published for a number of years with one of Chamberlain's other collector serials, the *Exchanger's Monthly* which was folded into the *Mineralogist's Monthly* in November, 1890. In 1893 Chamberlain concluded an agreement with W.M. Goldwaite to merge with another collector's periodical *Minerals: A Monthly Magazine*, where Goldwaite would be the publisher and Chamberlain the editor [which see next entry]. However, Goldwaite pulled out of the venture in March 1893. This led Chamberlain to found the *Mineral Collector* [which see].

REFERENCES: USGS Library Catalog: ??, ??.



MINERALS, 1892

## MINERALS.

**3366. — English, 1892-3** [Periodical].

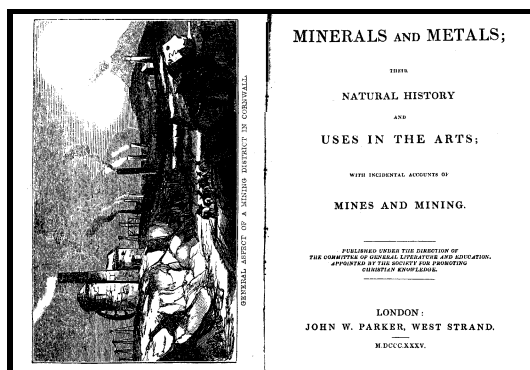
Minerals. A Monthly Magazine. New York, W.M. Goldwaite, Jan. 1892-Dec. 1893.†

Vols. 1-3, no. 12. Published, vol. 1, no. 1 (Jan. 1892)-vol. 3, no. 12 (Nov./Dec. 1893).

VERY SCARCE. The first number of *Minerals* was published in January, 1892. It was not a profitable enterprise for the publisher W.M. Goldwaite because the *Mineralogist's Monthly* was also being published at the time. Therefore, Arthur Chamberlain came to agreement with Mr. Goldwaite to merge in 1893; however, the publication was not profitable, and *Minerals* ceased publication in December, 1893. This led Arthur Chamberlain to began publication in 1894 of the more famous periodical, *The Mineral Collector*.

REFERENCES: USGS Library Catalog: ??, ??.

## MINERALS AND METALS.



MINERALS AND METALS, 1835

**3367. — English, 1835** [First edition].

Minerals and Metals; | Their | Natural History | And | Uses In The Arts; | With Incidental Accounts Of | Mines And Mining. | [rule] | Published Under The Direction Of | The Committee Of General Literature And Education, | Appointed By The Society For Promoting | Christian Knowledge. | [rule] | London: | John W. Parker, West Strand. | [short rule] | M.DCCC.XXXV.

8°: A<sup>5</sup> B-Q<sup>8</sup> R<sup>4</sup> χ<sup>4</sup>; 133ℓ.; [iii]-xii, [1]-248, 1-[8] p., frontispiece (showing "General Aspect of a Mining District in Cornwall.")

CONTENTS: [Frontispiece.]; [iii-iv], Title page, verso blank.; [v]-vi, "Preface.;" [vii]-xii, "Contents.;" [1]-245, Text.; 246-248, "Index.;" 1-[8], Publisher's list.

SCARCE. This is an elementary work on minerals, useful to beginners and compiled from more comprehensive books. The work defines what a mineral is as well as specific gravity and crystallization, followed by a description of the species (pp. 21-245).

**2nd edition, 1837:** *Minerals and metals : their natural history and uses in the arts ; with incidental accounts of mines and mining ; published under the direction of the Committee of Central Literature and Education, appointed by the Society for Promoting Christian Knowledge.* Second edition. London, J.W. Parker, 1837. xii, 248 p., illus.

**5th edition, 1847:** *Minerals and Metals; their natural history and uses in the arts; with incidental accounts of mines and mining ...* The fifth edition, revised. [With plates.] London, J.W. Parker, 1847. xii, 255 p., plates. [BL, 07107.df.14.]

REFERENCES: BL: [07107.de.16.].

## MINEROPHILO FREIBERGENSEI.

See: Zeisig, Johann Caspar.

## MISCELLANEA CHYMIAE.

**3368. — German, 1766.**

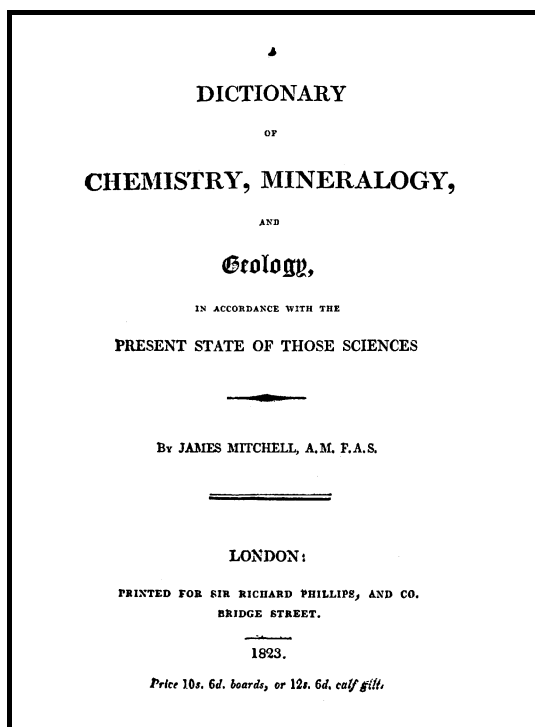
Miscellanea | Chymiae | Et | Metallvrgiae, | [rule] | oder: | Hundert und fünf und funfzig | wahre | Experimenta, | aus | denen hinterlassenen Schriften eines be= | rühmten Chymici, verbotenus gezogen, | mit allen von demselben angemerkten | Handriffen und Productis. | Aechten Liebhabern

zur Nachabmuna und Be= | lustigung vorgelegt,  
besonders denen Herren Berg= | officianten zu  
Erkãntnist und Untersuchung | verschiedener  
unanschnlicher verachterter | Steine und Erden.  
| [ornate rule] | Hof, | bey Johann Gottlieb Vierling  
| 1766.

8°: [8], 152 p., engraved frontispiece (showing mining operations).

VERY RARE. Unrecorded in many of the standard references, this anonymous collection contains much information on chemistry, metallurgy and mineralogy. It consists of 155 experiments and their results that would be especially useful for mining officials investigating various stones and earths. In the preface the author refers to two books published in 1718 and 1721, *Geheimer Natur eröffnete Pforten* and *Der sechs Tagewerk dieser Welt geheime Bedeutung*.

REFERENCES: Duveen, *Bibliotheca Alchemica et Chemica*, 1965: p. 406. • Neu, *Chemical, Medical & Pharmaceutical Books*, 1965: no. 2779.



DICTIONARY, 1823

**MITCHELL, James.** (BORN: 1786?; DIED: 1844) *English scientific writer.*

REFERENCES: Allibone, *Dictionary of English Literature*, 1859-71. • BBA: I 772, 412-415. • Poggendorff: 2, col. 158 ??. • Watt, *Bibliotheca Britannica*, 1824. • WBI.

**3369. — English, 1823.**

A | Dictionary | Of | Chemistry, Mineralogy, | And  
| Geology, | In Accordance With The | Present

State Of Those Sciences | [tapered rule] | By James Mitchell, A.M. F.A.S. | [double rule] | London: | Printed For Sir Richard Phillips, And Co. | Bridge Street. | [rule] | 1823. | Price 10s. 6d. boards, or 12s. 6d. calf gilt.

12°:  $\pi^2$  A-2D<sup>6</sup>; 336 $\ell$ .; [4], [i]-xviii, [2], 1-630, [18] p., frontispiece (chemical laboratory), 14 text illus. PAGE SIZE: 158 x 98 mm.

CONTENTS: [2 pgs], Title page, verso "London: | Printed by A Applegath, Stamford Street."; [2 pgs], "Preface."—dated March 1823.; [i]-xviii, "Introduction."; [1 pg], "Engravings | Contained In This Volume."; [1 pg], Blank.; 1-630, Text.; [18 pgs], Publisher's catalog.

VERY SCARCE. A dictionary of chemistry, mineralogy, and geology written at the time when each of these sciences that had all been considered as one study began to be viewed as separate studies. The terms are defined accurately, and particular attention is made of British contributions to the development of these sciences. The frontispiece shows a typical chemical laboratory of the period, and other engravings in the text depict a gas blowpipe, crystallization, a still, an apparatus for making hydrogen gas, other chemical apparatus, fossils, agates, geological strata, etc.

REFERENCES: BL.



MITCHELL

**MITCHELL, Samuel Latham.** (BORN: North Hempstead, Long Island, New York, U.S.A., 20 August 1764; DIED: New York City, New York, U.S.A., 7 September 1831) *American geologist & chemist.*

Studied medicine in NYC with Samuel Bard. Received MD in 1786, Edinburgh. Served as Congressman, Democratic-Republican, 1801-1804 and 1810-1813. Served as U.S. senator, 1804-1809. He promoted the popularization of scientific inquiry.

REFERENCES: ABA: I 1127, 85-163; II 420, 5-14. • Adams, *Dictionary of American Authors*, 1904. • *American Chemists & Chemical Engineers*: 1, 342-3 [by W.D. Miles]. • *Appleton Cyclopedia of American Biography*. • Drake, *Dictionary of American Biography*, 1872. • *Herringshaw's National Library of American Biography*. • *National Cyclopedia of American Biography*. • Poggendorff: 2, col. 159. • WBI.

## MITCHELL

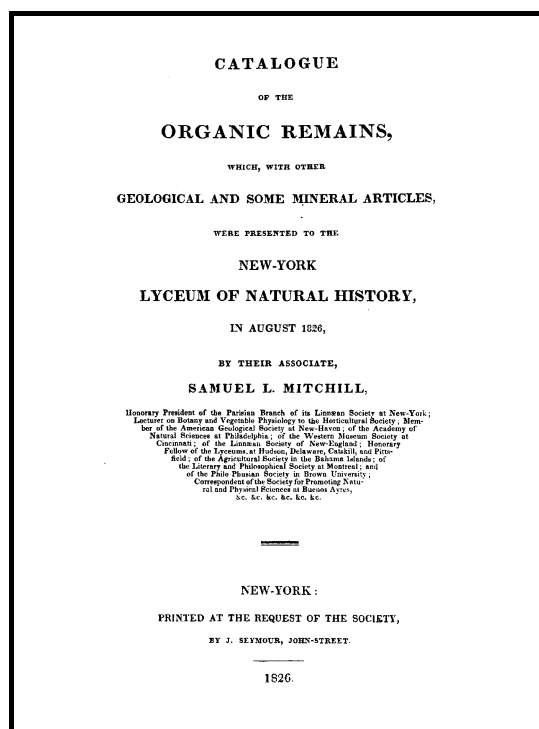
### 3370. — English, 1798 [Periodical].

The Medical Repository of American publications on medicine, surgery and the auxiliary branches of philosophy. Conducted by S.L. Mitchell and E. Miller. New-York, T. & J. Swords, 1797-1824.

23 vols. Vol. 1, no. 1 (1797)-v. 23 (1824). Vols. 7-12 also called 2nd hexade, v. 1-6; v. 13-15 also called 3rd hexade, v. 1-3; v. 16-23 also called new ser., v. 1-8.

VERY SCARCE. With E. Miller.

REFERENCES: LKG: XIV 915.



CATALOGUE OF THE ORGANIC REMAINS, 1826

### 3371. — English, 1826 [Collection catalog].

Catalogue | Of The | Organic Remains, |  
Which, With Other | Geological And Some Mineral  
Articles, | Were Presented To The | New-York |  
Lyceum Of Natural History, | In August 1826, | By  
Their Associate, | Samuel L. Mitchill, | [...12 lines of  
titles and memberships...] | [double rule] | New-York:  
| Printed At The Request Of The Society, | By J.  
Seymour, John-Street. | [rule] | 1826.

4°:  $\pi^4$  B-E4; 20 $\ell$ .; [1]-40 p. In printed wrappers,  
with the title printed on the cover. PAGE SIZE: 235 x  
145 mm.

CONTENTS: [1-2], Title page, verso blank.; [3],  
"Preface.;" [4], Blank.; [5]-40, Text.

VERY SCARCE. Provides a shelf by shelf description  
of fossils, rocks and minerals presented to the New York

Lyceum in 1826. The preface indicates that Mitchill was  
the presenter.

REFERENCES: Partsch, *Katalog der Bibliothek*, 1851: no.  
477.

## MITCHELL, Walter.

Geology, mineralogy, and crystallography. By ... D.T.  
Ansted ... Prof. Tennant ... and W. Mitchell.

See: Ansted, David Thomas.



MITSCHERLICH

### MITSCHERLICH, Eilhardt. (BORN: Neuende, Oldenburg, Germany, 7 January 1794; DIED: Berlin, Germany, 28 August 1863) German chemist.

Mitscherlich was one of the most important scientists  
of his generation. He came from a pastor's family and  
studied medicine and Oriental languages receiving from the  
University of Giessen a Ph.D. in 1814. He studied and  
taught chemistry at the University of Göttingen. In 1822,  
at the age of 28, he became a member of the Royal Prussian  
Academy of Sciences and a professor at the Friedrich-  
Wilhelm University in Berlin. He devoted the rest of his  
life to research in chemistry and mineralogy, and was very  
much part of the Prussian Establishment. He also became  
a protege of JÖNS JAKOB BERZELIUS and developed a deep  
friendship with him.

REFERENCES: ADB: 22, 15. • Barr, *Index to  
Biographical Fragments*, 1973: 180. • DBA: I 848, 369-370.  
• Drugulin, *Sechstausend Portraits*, 1863: nos. 3708-11 &  
6211. • DSB: 9, 423-6. • *Encyclopaedia Britannica*, 11th  
edition. • *Great Chemists*: 481-494, portrait. • Hamberger &  
Meusel, *Gelehrte Teutschland*, 1796-1834. • *ISIS*, 1913-65: 2,  
186. • NDB: 17, 568-70 [by H.-W. Schütt]. • Poggendorff:  
2, cols. 160-2. • Sarjeant, *Geologists*, 1980: 3, 1732 & 2,  
905. • Schaedler, *Biographisch Handwörterbuch*, 1891: 81-  
2. • Schütt, H.W., *Eilhard Mitscherlich, prince of Prussian  
chemistry*. [Washington, D.C., American Chemical Society  
and the Chemical Heritage Foundation, c1997]. xvi, 239 p.,  
illus. • WBI. • *World Who's Who in Science*: 1191.

### 3372. — German, 1896 [Collected works].

Gesammelte Schriften von Eilhard Mitscherlich.  
Lebensbild, Briefwechsel und Abhandlungen. Her-  
ausgegeben von A. Mitscherlich. Mit ben Bildnis-  
sen Mitscherlichs und Berzelius in Heliogravüre, 85

Abbildungen im Text und 10 Tafeln in Steindruck. Berlin, Ernst Siegfried Mittler, 1896.

8°: xiv, 678 p., 14 plates (some folded), 85 illus., portraits (Mitscherlich and Berzelius).

VERY SCARCE. Compiled and edited by Alexander Mitscherlich [1836-1918], the author's son. Eilhard Mitscherlich is best known for his work in crystallography and chemistry. He discovered that substances with similar chemical compositions may have the same shape of crystal, showing that one element can sometimes substitute for another in the crystal lattice. This phenomenon, which was named isomorphism, was demonstrated by Mitscherlich with crystals of potassium arsenate and potassium phosphate and with some of the sulphates. He further noticed that sulphur forms either rhombic or monoclinic crystals and this led him to the discovery of dimorphism, the capacity of some elements to occur in two distinct forms. While visiting Paris in 1823/4 he and Fresnel discovered that the optical axes of a biaxial crystal change with a change in temperature. All these discoveries were announced to the scientific world through Mitscherlich's many articles in scientific journals. In the *Gesammelte Schriften* they have all been collected together, and with fine portrait of the author and Berzelius, they form an important monument to this remarkable scientist.

REFERENCES: BL. • Bolton, *Bibliography of Chemistry*, Suppl. 1, 1899: p. 54. • Melhado, E.M., "Mitscherlich's discovery of isomorphism," *Historical Studies in the Physical Sciences*, 11 (1980), 87-123. • NUC. • Schütt, *Entdeckung des Isomorphismus*, 1984. • Schütt, *Entdeckung des Isomorphismus*, 1998.

**MODEÉR, Adolf.** (BORN: Karlskrona, Sweden, 15 April 1739; DIED: Stockholm, Sweden, 16 July 1799) *Swedish engineer.*

Modéer was a member of the Academy of Sciences in Stockholm and secretary of the Patriotic Society.

REFERENCES: Jöcher, *Gelehrten-Lexikon*, 1750-51. • Löwegren, *Naturalienkabinett i Sverige*, 1952: 358. • Poggendorff: 2, col. 164 & 1428. • SBA: Scandinavian Biographical Archive: B-205, 316-323. • *Svenskt Biografiskt Handlexikon*: 2, 143-4, portrait. • *Svenskt Biografiskt Lexikon*: 25, 587. • WBI.

### 3373. — Swedish, 1785.

Anledning til Stenrikets Upställing På Stadgade | Grunder. Andra | Uplagan, | tilökt | och | förbättrad. | Stockholm, Tryckt | hos | Commiss. | P. A. Brodin, | 1785.

8°: [8], [1]-61, [1] p.

CONTENTS: [2 pgs], Title page, verso blank.; [6 pgs], Introduction.; 1-41, Text.; 42-61, Systematics.; [1 pg], Blank.

VERY RARE. Published anonymously but attributed to Modeer by LKG. The text portion contains the authors discussion on the order of nature. The systematic part treats the authors mineral system comprising six classes divided into orders and species. Next to each species there is a page reference to the works of Linnaeus, Wallerius, Cronstedt and Bergman. [Entry by Johan Kjellman]

**Original article, 1785:** "Tankar om Stenrikets uppställning" [pseud. Hæreticus Philaethes], in: *Den svenske Lyncurgus*, no. 12, 89-96. (utgivare M. Kewenter) P. A. Brodin, Stockholm.

This "first edition" is very much like the second except that there is no systematic part. [Entry by Johan Kjellman]

REFERENCES: LKG: XII 108\*.

**MODEL, Johann Georg.** (BORN: Rothenburg ob der Tauber, Germany, 8 February 1711; DIED: St. Petersburg, Russia, 22 March 1775) *German apothecary.*

In his youth, Model was apprenticed to several apothecary shops in southern Germany. In 1745 he immigrated to Russia, where he operated a very successful apothecary shop in St. Petersburg. He was ultimately appointed professor of pharmacy and economics at that city's University and became a member of the Academy of Science.

REFERENCES: DBA: I 849, 318-323; II 902, 42. • *Deutsche Apotheker Biographie*: 2, 438-9 [by W. Koning]. • Hirsching, *Historisch-literarisches Handbuch*, 1794-1815. • Jöcher, *Gelehrten-Lexikon*, 1750-51. • Meusel, *Verstorbenen Teutschen Schriftsteller*, 1802-16. • Poggendorff: 2, col. 164. • WBI.

### 3374. — Latin, 1747.

De borace nasiva, a Persis Borsch dicta, Dissertatio Cogitata de partibus constltut. Vorac., occasione salis eujusd, e Persia Accepti prolata. Leipzig, 1747.

8°: VERY RARE.

REFERENCES: LKG: XVI 430.

### 3375. — German, 1758.

Versuche und Gedanken über ein natürliches oder gewachsenenes Salmiak, nebst Erörterung einiger vom herrn Baron gemachten Einwürfe über das persische Salz. Leipzig, J.F. Gleditschens Handlung, 1758.

8°: [16], 64 p.

RARE. Concerns sal ammoniac and Persian salt (native soda or borax). It is dedicated to Andreas Sigismund Marggraf, the masterly chemist who had written on a sal ammoniac preparation to obtain phosphorus. There are also numerous references to the discoverer of borax, Théodore Baron d'Hénouville, as well as the researches of Boerhaave, J.H. Pott, Duhamel du Monceau, J.J. Becher, J.F. Kunckel.

REFERENCES: Jonathan Hill, Bookseller: cat. 11, no. 112. • LKG: XVI 385.

**MOELLER (Möller), Johann Wilhelm.** (BORN: 1748; DIED: 1806) *German physician.*

REFERENCES: DBA: I 851, 215-223. • Hamberger & Meusel, *Gelehrte Teutschland*, 1796-1834. • Jöcher, *Gelehrten-Lexikon*, Supplement. • WBI.

### 3376. — German, 1775.

Mineralogische Geschichte des Sächsischen Erzgebirges. [Edited by J.W. Moeller.] Hamburg, Bohn, 1775.

8°: 52 p. Published anonymously, but edited (and written?) by Moeller. This gives a short summary

## MOHS

of the mineralogical story of the Erzgebirge region of Saxony. RARE.

REFERENCES: BL: [T.876.(4.)]. • Dryander, *Catalogus Banks*, 1796-1800: 4, p. 60. • *Katalog Bergakademie Freiberg*, 1879: p. 232 [IX. 282.]. • LKG: XIV 221.

**MÖLLINGER, Otto.** (BORN: Speier, Rheinpfalz, Germany, 19 May 1814; DIED: 1886) *German mathematician.*

Möllinger was professor of mathematics and geometry at the Academy in Solothurn.

REFERENCES: DBA: II 903, 426-428. • *Historisch-biographisches Lexikon der Schweiz*. • Poggendorff: 2, col. 167 & 3, ???. • WBI.

### 3377. — German, 1840.

Die Lehre von den Krystallformen, nebst Vorschlag und Versuch zu einer natürlichen Bezeichnungsmethode ihrer Combinationen. Mit Kupfern. Solothurn, Jent & Gassmann, 1840.

8°: xx, 190 p., illus. A textbook describing the examination of crystal forms. RARE.

REFERENCES: *Katalog Bergakademie Freiberg*, 1879: p. 457 [VI. 771.]. • Partsch, *Katalog der Bibliothek*, 1851: no. 217.

**MØHR, Nicolai Petri.** (BORN: 1742; DIED: 1790) *Danish naturalist, biologist, zoologist & botanist.*

Went student 1765 from Thorshavn, went J.C.Svabo to the hand known that færøske ordbogsarbejde, performing a undersøgelse to Færøerne 1776-78 with a view to a physically representation from øerne and best pertinent to that compound travelled 1780-81 to Island. That a output from that go issuing he 1786 above book. The book contains bl.a. good facts about they Scandinavian birds life, over and about the to when absolute record by Islands plants.

REFERENCES: *Dansk Biografisk Lexikon*. • SBA: Scandinavian Biographical Archive: A-215, 184-186. • WBI. • Worm, *Forsøg til et Lexicon over Danske*, 1771-84.

### 3378. — Danish, 1786 [First edition].

Forsøg | til | en Islandsk | Naturhistorie, | med adskillige oekonomiske samt andre | Anmærkninger | ved | N. Mohr. | [rule] | [...3 lines of quotation...] | [ornate rule] | Kiøbenhavn, | trykt hos Christian Friderik Holm. | 1786.

8°: xvi, 413, [1] p., 7 folding plates.

VERY SCARCE. In 1765, Møhr became a student of Thorshavn, and then went to study under J.C. Svabo. Between 1776 to 1778, he undertook a extended tour of the Faeroe Islands for the purpose of a physical description of the Island's natural history and its inhabits. As a result of this travel, Møhr published in 1786 this authoritative book, which contains good information on the frugal Nordic life, the indigenous plants, and a few scattered references to the Faeroe Islands noted zeolite minerals.

REFERENCES: Nissen (ZBI): no. 2855. • NUC: 389, 421 [NM 0679471].

**MOHS, Carl Frederick Christian.** (BORN: Gernrode, Anhalt-Bernburg, Germany, 29 January 1773; DIED: Agordo near Belluno, Tirol, Italy, 29 August 1839) *German mineralogist.*



MOHS

Mohs was educated at the University of Halle, graduating in 1797. Afterwards, he attended the Bergakademie in Freiberg and studied under Werner. On the invitation of his fellow students, George Mitchell and R. JAMESON, Mohs traveled to Great Britain in 1802. In 1811, he was appointed curator of the mineral collection at the Johanneum in Graz, Austria. Upon the death of Werner in 1817, Mohs succeeded his former teacher as professor of mineralogy at the Freiberg Bergakademie. Then in 1826, he accepted a position as professor of mineralogy and superintendent of the Royal Imperial mineral collections in Vienna.

REFERENCES: ADB: 22, 76. • Barr, *Index to Biographical Fragments*, 1973: 181. • DBA: I 853, 309-327; II 905, 441-451. • Drugulin, *Sechstausend Portraits*, 1863: nos. 3717 & 6212. • DSB: 9, 447-9 [by J.G. Burke]. • Fuchs, W., G. Halmeyer & F. Leydolt, *Friedrich Mohs und sein Wirken in wissenschaftlicher Hinsicht: ein biographischer Versuch entworfen und zur Enthüllungsfeier seines Monumentes im st. Johanneums-Garten zu Grätz*. Vienna, 1843. • Hamberger & Meusel, *Gelehrte Teutschland*, 1796-1834. • Kobell, *Geschichte der Mineralogie*, 1864: 216-22. • Lambrecht & Quenstedt, *Catalogus*, 1938: 298-9. • NDB: 17, 715-6 [by W. Kroker]. • *Österreich Biographisches Lexikon*. • *Österreichische Naturforscher*, 1951. • Poggendorff: 2, cols. 172-3. • Sarjeant, *Geologists*, 1980: 3, 1734. • Schaedler, *Biographisch Handwörterbuch*, 1891: 82. • Schiffner, *Alter Freiburger Bergstudenten*, 1935-40: 1, 20-3. • Staples, L.W., "Friedrich Mohs and the scale of hardness," *Journal of Geological Education*, 12 (1964), no. 3, 98-101. • WBI. • *World Who's Who in Science*: 1195. • Wurzbach, *Biographisches Lexikon Österreich*, 1856-91.

### 3379. — German, 1843.

[Contained within an ornate double rule box:] Friedrich Mohs | und sein Wirken | in wissenschaftlicher Hinsicht. | [ornate rule] | Ein | biographischer Versuch, | entworfen, und zur Enthüllungsfeier seines Monumentes | im st. st. Johanneums-Garten zu Grätz | herausgegeben von | Dr. Wilhelm Fuchs, Dr. Georg Halmeyer, Dr. Franz | Leydolt, Gustav Rösler. | [ornate rule] | Wien, 1843. | In Commission bei Kaulfuss Witwe, Prandel & Comp.

8°:  $\pi^3$  1-4<sup>8</sup> 5<sup>7</sup>; 42 $\ell$ .; [6], [1]-77, [1] p., frontispiece (portrait of Mohs bust with his signature). PAGE SIZE:

264 x 170 mm.

CONTENTS: [2 pgs], Title page, verso blank.; [1 pg], Dedication.; [1 pg], Blank.; [2 pgs], "Vorrede."; [1]-77, Text.; [1 pg], 9 lines of text, at bottom, "Gedruckt bei Carl Ueberreuter."

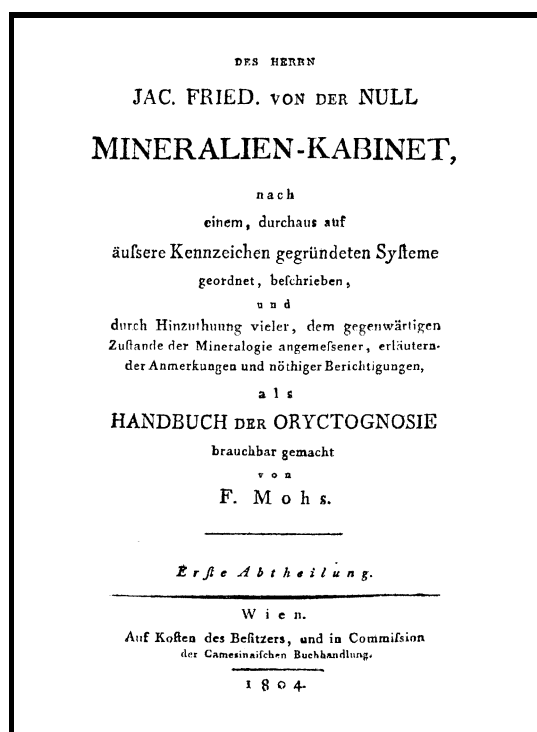
SCARCE. The principal biographical source for Mohs, which includes an autobiography to the year 1830.

**3380. — German, 1804** [Periodical].

Sammlung mineralogischer und bergmännischer Abhandlungen ... Erste Band ... Beschreibung des Gruben-Gebäudes Himmelsfürst bey Freyburg im Sachsen. Mit zwei Kupfertafeln. Wein, 1804.

8°: Bd. 1. Beschreibung des Gruben-Gebäudes Himmelsfürst bei Freyberg in Sachsen. No more volumes published.

VERY SCARCE. No more published  
REFERENCES: LKG: VI 116.



NULL MINERALIEN-KABINET, 1804

**3381. — German, 1804** [Collection catalog].

Des Herrn | Jac. Fried. von der Null | Mineralien-Kabinet, | nach | einem, durchaus auf | äussere Kennzeichen gegründeten Systeme | geordnet, beschreiben, | und | durch Hinzuthuung vieler, | dem gegenwärtigen | Zustande der Mineralogie angemessener, erläutern- | der Anmerkungen und nöthiger Berichtigungen, | als | Handbuch der Oryctognosie | brauchbar gemacht | von | F.

Mohs. | [rule] | Erste [-Dritte] Abtheilung. | [tapered rule] | Wien. | Auf Kosten des Besitzers, und in Commission | der Camesinischen Buchhandlung. | [rule] | 1804.

3 vols. [VOL 1] 8°:  $\pi^1$  a-d<sup>8</sup> e<sup>4</sup> A-2O<sup>8</sup> 2P<sup>1</sup>; 334 $\ell$ .; [2], [i]-lxxii, [1]-594 p.; [VOL 2] 8°:  $\pi^1$  A-U<sup>8</sup> X<sup>5</sup>; 166 $\ell$ .; [2], [1]-330 p.; [VOL 3] 8°:  $\pi^1$  A-2Y<sup>8</sup> 2Z<sup>7</sup>; 368 $\ell$ .; [2], [1]-730, [4] p. PAGE SIZE: 195 x 115 mm.

CONTENTS: [Vol 1] [2 pgs], Title page, verso blank.; [i]-xlii, "Einleitung."—dated June 1803.; [xliii]-lxxii, "Mineral-System."; [1], "Die Klasse erdiger Fossilien." [2], Blanks.; [3]-594, Text.

[Vol 2] [2 pgs], Title page, verso blank.; [1]-330, Text.  
[Vol 3] [2 pgs], Title page, verso blank.; [1]-730, Text.; [4 pgs], "Verbesserungen."

RARE. On the advice of the Irish geologist George Mitchell [ca. 1775-1803], Mohs was commissioned to prepare a systematic catalog of the important mineral collection formed by the wealthy Vienna amateur Jakob Friedrich van der Nüll [see note below]. It is likely that during the examination of the collection and the preparation of this work that Mohs first began to doubt Werner's mineralogical ideas. A chance meeting in 1810 gave Mohs an opportunity to convince Werner of deficiencies in his concepts. Werner remained steadfast, however, causing Mohs to pursue a course of study that would eventually set systematic mineralogy on a new foundation. Van der Nüll's collection was incorporated into the Imperial collections at Vienna in the 1820's.

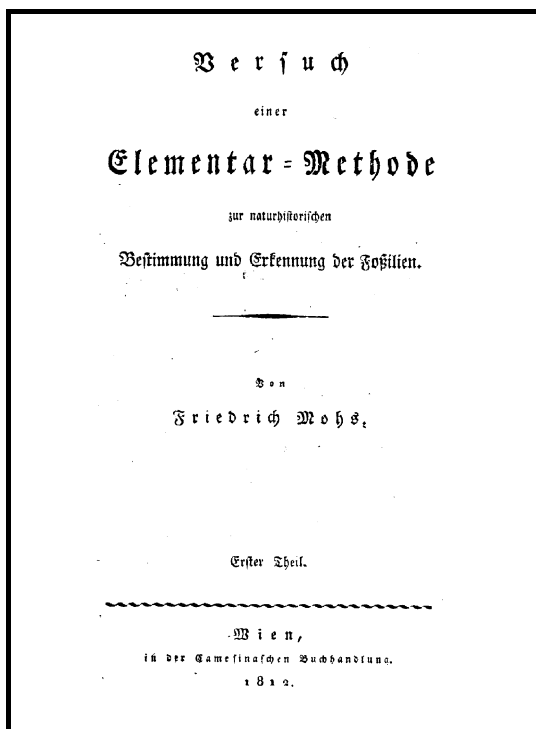
**Second issue:** Another, apparently rarer second issue exists which is identical to the first issue except that the year on the title page reads "1805."

**Jakob Friedrich van der Nüll.** (BORN: ; DIED: 1826?) *Austrian mineral collector.* Austrian mineral collector. Van der Nüll was a banker and businessman in Vienna. Through his resources, he built an exceptionally fine mineral collection. For a curator, he hired Mohs, who arranged the contents according to first Werner's then his own classification scheme. The collection begun in 1797 concentrated on hand-size specimens (2 to 4-inches), and was considered within a few years to be not only the finest mineral collection in Vienna but all of Germany. This remarkable achievement was accomplished through the purchasing of no less than eleven important mineral collections before 1807. In 1827, the collection was purchased by the Royal Imperial mineral cabinet in Vienna.

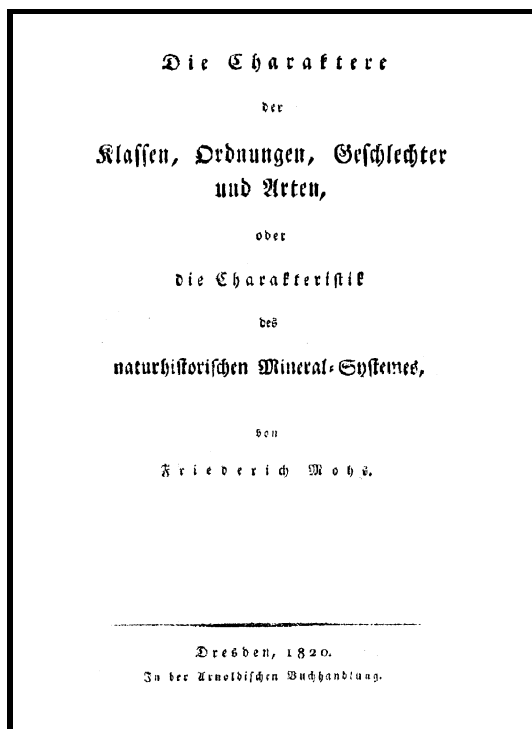
REFERENCES: Dana's 7th (Bibliography): 77. • Freiesleben, *Sächsische Mineralien-Verzeichnisse*, 1828: no. 58. • *Freilich Sale Catalog*: no. 398. • LKG: XV 48. • Partsch, *Katalog der Bibliothek*, 1851: no. 478. • Sinkankas, *Gemology Bibliography*, 1993: no. 4522. • Ward & Carozzi, *Geology Emerging*, 1984: no. 1591. • Wilson, *History of Mineral Collecting*, 1994: 107-8 & 219. (Nüll) Böckh, F.H., *Wiens lebende Schriftsteller, Künstler und Dilettanten in Kunstfache*. Wien, B.P. Bauer, 1821: 136. • Burghardt, *Von Agricola bis Van der Null*, 1950: 149. • Greene & Burke, *Minerals in the Age of Jefferson*, 1978. • Huber, S. and P. Huber, "Zur Tradition des Mineraliensammelns in Raume Wien," *Mitteilungen der Österreichischen Mineralogischen Gesellschaft*, no. 128, 77-86: 81-2. • Wilson, *History of Mineral Collecting*, 1994: 103, 108-8 & 186. • Wurzbach, *Biographisches Lexikon Österreich*, 1856-91: 20, 426.

**3382. — German, 1812.**

Versuch | einer | Elementar=Methode | zur naturhistorischen | Bestimmung und Erkennung



VERSUCH EINER ELEMENTAR-METHODE, 1812



DIE CHARAKTERE, 1820

der Fossilien. | [tapered rule] | Von | Friedrich Mohs.  
| Erster Theil. | [ornate rule] | Wien, | in der  
Camesinaschen Buchhandlung. | 1812.

8°: a-b<sup>8</sup> A-H<sup>8</sup>; 80ℓ.; [i]-xxix, [3], [1]-128 p. PAGE  
SIZE: 225 x 150 mm.

CONTENTS: [i-ii], Title page, verso blank.; [iii]-xxxix,  
"Vorrede."; [1 pg], Blank.; [1 pg], Sectional title page.;  
[1 pg], Blank.; [1]-128, Text.

VERY SCARCE. Describes Mohs new approach  
to a classificatory system in mineralogy. Using the  
most elementary physical characteristics of a mineral,  
he develops a natural history method for arranging  
species. As part of the methodology, Mohs develops  
for the first time his famous scale of mineral hardness.  
Miners and mineralogists had long been accustomed to  
scratch a mineral in determining its species. In an effort  
to make the procedure more rigid, Mohs proposed a  
non-proportional scale of increasing hardness from one  
to ten as follows: (1) talc, (2) gypsum, (3) calcite, (4)  
fluorite, (5) apatite, (6) feldspar, (7) quartz, (8) topaz,  
(9) corundum, and (10) diamond. In later writings,  
he would add other minerals to obtain intermediate  
degrees of hardness, but it is his first scale that every  
geology student still learns today.

REFERENCES: LKG: IX 33. • Staples, L.W., "Friedrich  
Mohs and the scale of hardness," *Journal of Geological  
Education*, 12 (1964), no. 3, 98-101.

### Die Charaktere

3383. — German, 1820 [First edition].

Die Charaktere | der | Klassen, Ordnungen,  
Geschlechter | und Arten, | oder | die Charakter-  
istik | des | naturhistorischen Mineral=Systemes,  
| von | Friederich Mohs. | [tapered rule] | Dresden,  
1820. | In der Arnoldischen Buchhandlung.

8°: 1-7<sup>8</sup> 87; 63ℓ.; [i]-xxvi, 1-100 p. PAGE SIZE:  
190 x 108 mm.

CONTENTS: [i-ii], Title page, verso blank.; [iii]-xxvi,  
"Vorrede."; 1-100, Text.

VERY SCARCE. Mohs scale of hardness, first  
outlined in his *Versuch einer Elementar-Methode*  
(Wien, 1812), is prominently featured in this work, as  
is the continuation of his mineralogical system.

3384. 2nd edition, 1821: Die Charaktere | der |  
Klassen, Ordnungen, Geschlechter | und Arten, |  
oder | die Charakteristik | des | naturhistorischen  
Mineral=Systemes, | von | Friederich Mohs. | [rule]  
| Zweite, verbesserte Auflage. | Mit 3 Kupfer tafeln. |  
[tapered rule] | Dresden, 1821. | In der Arnoldischen  
Buchhandlung.

8°: π<sup>7</sup> 1-14<sup>8</sup> 15<sup>1</sup>; 120ℓ.; [i]-xii, [2], [1]-226 p., 3 folding  
plates (showing crystal diagrams). PAGE SIZE: 196 x 120  
mm. VERY SCARCE.

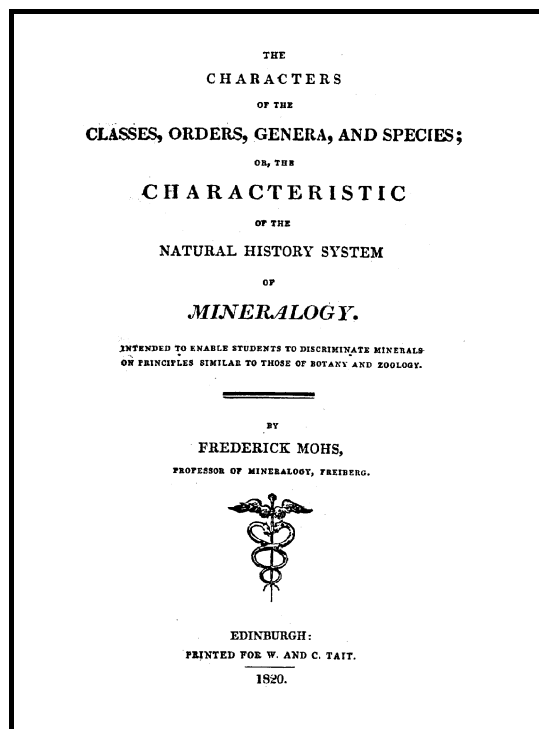
CONTENTS: [i-ii], Title page, verso blank.; [iii]-  
vi, "Vorrede | zur ersten Auflage."; vii-xii, "Vorrede  
| zur zweiten Auflage."—dated January 1821.; [1 pg],  
"Druckfehler."; [1 pg], Blank.; [1]-108, Text.; 109-226,  
"Charakteristik. | Charaktere der Klassen."

PLATES: The 3 folding plates are numbered Taf. I-III.  
Each is signed Haject gest., and all show various crystal  
diagrams.

Die Charaktere der Klassen, Ordnungen, Geschlechter  
und Arten des naturhistorischen Mineral-Systemes, von

Friederich Mohs. Neu bearbeitet von F.X.M. Zippe. (Wein, 1858).

See: Zippe, František Xaver Maximilian.



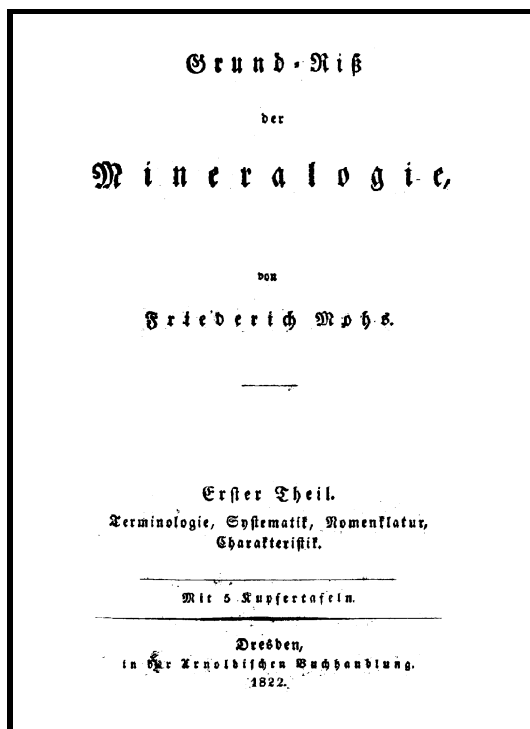
CHARACTERS OF THE CLASSES, 1820

**3385. English transl., 1820:** The | Characters | Of The | Classes, Orders, Genera, And Species; | Or, The | Characteristic | Of The | Natural History System | Of | Mineralogy. | Intended To Enable Students To Discriminate Minerals | On Principles Similar To Those Of Botany And Zoology. | [double rule] | By | Frederick Mohs, | Professor Of Mineralogy, Freiberg. | [ornament] | Edinburgh: | Printed For W. And C. Tait. | [rule] | 1820. 8°: xxvii, [1], 109, [3], viii p.

RARE. First separate English edition, translated by Thomas Carlyle from *Die Charaktere der Klassen, Ordnungen, Geschlechter und Arten* (1820). This work is of importance for bringing Mohs scale of hardness to the English speaking world. Upon its publication, Mohs *Die Charaktere der Klassen, Ordnungen Geschlechter und Arten*, enjoyed wide popularity among mineralogists of the continent. On this basis, David Brewster editor of *The Edinburgh Philosophical Journal*, commissioned an impoverished school master to bring out an English translation for his *Journal* (see: 3, no. 5, pp. 154–76 & no. 6, pp. 317–42 and 4, no. 7, pp. 56–57). These parts were subsequently collected together and republished as a single volume. As it happens, Carlyle, the translator, never again wrote on mineralogy, although he went on become one of the great figures in nineteenth century English literature.

**Thomas Carlyle.** (BORN: 1795; DIED: 1881) *Scottish essayist, historian & philosopher.* Carlyle is best remembered works are: *French Revolution*, *Frederick the Great* and *Sartor Resartus*.

REFERENCES: Anonymous, "Mohs, Brewster, Carlyle and the table of hardness," *Mineral Digest, the Journal of Mineralogy*, 8, 82-6. • Dana's 7th (Bibliography): 77.



GRUND=RISS DER MINERALOGIE, 1822

(Carlyle) DNB. • *Eminent Scotsmen.* • *Nouvelle Biographie Générale* (Hoefer).

### 3386. — German, 1822-4.

Grund=Riß | der | Mineralogie, | von | Friederich Mohs. | [short rule] | Erster Theil. | Terminologie, Systematik, Nomenklatur, | Charakteristik. | [rule] | Mit 5 Kupfertafeln. | [tapered rule] | Dresden, | in der Arnoldischen Buchhandlung. | 1822.

[TITLE PAGE OF THE SECOND PART READS:]

Grund=Riß | ... | Zweite Theil. | Physiographie. | [rule] | Mit 10 Kupfertafeln. | [tapered rule] | Dresden, | in der Arnoldischen Buchhandlung. | 1824.

2 vols. [VOL 1: 1822] 8°: \*-\*-\*8 \*-\*-\*7 1-378 387; 334ℓ.; [i]-lxii, [1]-604, [2] p., 5 folding plates. [VOL 2: 1824] 8°: \*-\*8 \*-\*2 1-458 465 [1]-28; 399ℓ.; [i]-xxxvi, [1]-730, [1]-30, [2] errata p., 10 folding plates (164 figs. of crystals). PAGE SIZE: 192 x 110 mm.

CONTENTS: [Vol 1: 1822] [i-ii], Title page, verso blank.; [iii]-xlviii, "Vorrede."; xlix-lxii, "Inhalt."; [1]-604, Text.; [2], "Druckfehler."; [At end], 5 folding plates.

[Vol 2: 1824] [i-ii], Title page, verso blank.; [iii]-xxii, "Vorerinnerungen."; xxiii-xxxvi, "Inhalt."; [1]-638, Text.; 639-691, "Este Anhang. Mineralien von denen zu erwarten, daß sie Künftig als eigene Species in Systeme werden aufgenommen werden können."; 692-730, "Zweite Anhang. Mineralien, von denen nicht zu erwarten, daß sie Künftig als einige Species im Systeme werden aufgenommen werden können."; [1], "Register zu dem Grund-Riß der Mineralogie in zwei Bänden, von Friederich Mohs."; [1], Blank.; [3]-20, "Deutsches Register."; 21-25, "Englisches Register."; 26-



## MOHS

30, "Französisches Register.;" [2 pgs], Errata.; [At end], 10 plates showing 164 figures of crystals.

VERY SCARCE. The first volume of this work, centering on crystallography reached essentially the same conclusions as did Christian Samuel Weiss (although Mohs does not credit Weiss with the discovery, thus spawning a mutual dislike). Mohs extends, however, the four crystal systems proposed by Weiss, namely: rhombohedral (hexagonal), pyramidal (tetragonal), prismatic (orthorhombic), and tessular (cubic), with the addition of two new systems whose crystallographic axes were not mutually perpendicular. These new crystal systems were later named the monoclinic and triclinic, and fully described by Karl Friedrich Naumann in 1824. The second volume of the *Grundriss* contains a systematic description of minerals, founded on a natural history method with classes, orders, genras, and species. The principal addition to the mineral descriptions not seen in previous authors is the explicit mention of the crystal system to which a given mineral belongs.

REFERENCES: Dana's 7th (Bibliography): 77. • DSB: 9, 447-9 [by J.G. Burke]. • *Freilich Sale Catalog*: no. 399.

**3387. English transl., 1825:** Treatise | on | Mineralogy, | or the | Natural History Of The Mineral Kingdom. | By | Frederick Mohs, | Professor In The Mining Academy Of Freiberg. | Translated from the German, with considerable Additions, | by | William Haidinger, F.R.S.E. | Vol. I. [-III.] | Edinburgh: | Printed For Archibald Constable And Co. Edinburgh; | And Hurst, Robinson, And Co. London. | 1825.

3 vols. [VOL 1] 8°: [a]<sup>8</sup> b<sup>4</sup> A-2H<sup>8</sup> 2G<sup>1</sup>; 243ℓ.; [4], [i]-xxiv, [1]-458 p., 15 plates (80 figures); [VOL 2] 8°: π<sup>3</sup> A-2H<sup>8</sup> 2G<sup>4</sup>; 237ℓ.; [6], [1]-472 p., 35 plates (197 figures); [VOL 3] 8°: π<sup>3</sup> A-U<sup>8</sup>; 163ℓ.; [6], [1]-319, [1] p. PAGE SIZE: 195 x 120 mm.

CONTENTS: [Vol 1] [2 pgs], Half title page, verso "Edinburg: Printed at the Caledonian Mercury Press.;" [2 pgs], Title page, verso blank; [i]-xiv, "Preface.;" [xv]-xxiv, "Contents of Vol. I.;" [1]-18, "Introduction.;" [19]-313, Text.; [314]-345, "Part II. Theory of the System.;" [346]-367, "Part III. Nomenclature.;" [368]-390, "Part IV. Characteristic.;" [391]-458, "Characters of the Classes, Orders, Genra and Species.;" [At end], 15 plates.

[Vol 2] [2 pages], Half title page, verso "Edinburg: Printed at the Caledonian Mercury Press.;" [2 pages], Title page, verso blank; [1 page], "Contents of Vol. II.;" [1 page], Blank.; [1]-16, "Part V. Physiography.;" [17]-472, "General Descriptions of the Species.;" [At end], 35 plates.

[Vol 3] [2 pages], Half title page, verso "Edinburg: Printed at the Caledonian Mercury Press.;" [2 pages], Title page, verso blank.; [1 page], "Contents of Vol. III.;" [1 page], Blank.; [1]-66, Continuation of the descriptive mineralogy.; [67]-176, "Appendix I. Minerals, the greater part of which will probably form in the future distinct species in the mineral system.;" [177]-188, "Appendix II. Minerals, which will probably never form distinct species in the mineral system.;" [189]-288, "Plates and Explanations."—descriptions are printed on recto side of leaves only.; [289]-319, "Index.;" [1 page], "Errata."

VERY SCARCE. Translation by WILLIAM HAIDINGER from *Grundriß der Mineralogie* (Dresden, 1822-24). Mohs reached essentially the same conclusions as CHRISTIAN SAMUEL WEISS did concerning crystallography. In 1819, Weiss had suggested that four crystal systems existed, namely: rhombohedral (hexagonal), pyramidal (tetragonal), prismatic (orthorhombic), and tessular (cubic). In the 1822 volume of his *Grundriß*, Mohs suggested (omitting any mention of Weiss' previous work) that six crystal systems

existed. The four mentioned already, plus two whose crystal axes were not mutually perpendicular. These were described in full by KARL FRIEDRICH NAUMANN in 1824, and given the names monoclinic and triclinic.

Until this very fine translation of the *Grundriß* appeared, Mohs mineralogical ideas were largely confined to Germany. However, the translator, Haidinger, was also a very competent mineralogist in his own right, and the augmentation he brought to his translation transformed the work into the standard mineralogical reference of the natural history method for the period 1825 to 1850. So successful was this work that JAMES DWIGHT DANA used it as a model for the first edition of his own *System of Mineralogy* (1st ed., New Haven, 1837).

Volume one consists of a general description of mineralogy, terminology, crystallography, properties, theory of the system, and nomenclature. Volume two contains general descriptions of the species. Volume three finishes of the species and gives an explanation to the plates, which mostly show crystals.

REFERENCES: Dana's 7th (Bibliography): 72. • Flügel, *Geologie an der Universität Graz*, 1977: 4-6, 7, 10, 15, 21. • Groth, *Entwicklungsgeschichte*, 1926: 249-50. • Kobell, *Geschichte der Mineralogie*, 1864: 216-22.

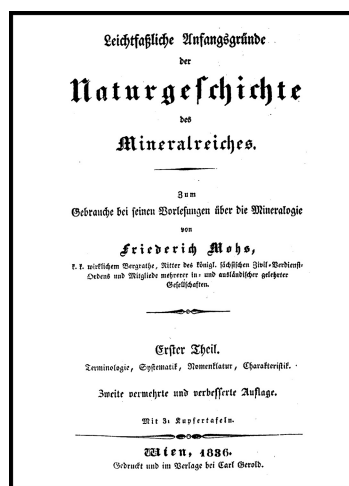
**3388. — German, 1832** [First edition].

Leichtfässliche Anfangsgründe der Naturgeschichte des Mineralreiches ... Nebst einem Anhang welcher Gleichungen zur Berechnung einfacher und zusammengesetzter Krystallgestalten und Beispiele der letzern enthält. Mit Kupfertafeln. Wein, 1832.

xxiv, 643, [1] p. 8 fold. plates.

VERY SCARCE. Part two was completed after Mohs death by F.X.M. ZIPPE.

REFERENCES: Dana's 7th (Bibliography): 77.



LEICHTFÄSSLICHE, 1836

**3389. 2nd edition, 1836-9:** Leichtfässliche Anfangsgründe | der | Naturgeschichte | des | Mineralreiches. | [tapered rule] | Zum | Gebrauche bei seinen Vorlesungen über die Mineralogie | von | Friedrich Mohs, | [... 3 lines of titles and memberships...] | [ornate rule] | Erster Theil. | Terminologie, Systematik, Nomenklatur, Charakteristik. | Zweite vermehrte und verbesserte Auflage. | Mit 31 Kupfertafeln. | [ornate rule] | Wien, 1836. | Gedruckt und im Verlage bei Carl Gerold.

[TITLE PAGE TO THE SECOND VOLUME READS:]

Leichtfällige Anfangsgründe | ... | Zweite Theil. | Terminologie, Systematik, Nomenklatur, Charakteristik. | ... | Mit 31 Kupfertafeln. | [ornate rule] | Wien, 1836. | Gedruckt und im Verlage bei Carl Gerold.

2 vols. [VOL 1: 1836] 8°: [i]-xxx, [1]-524, [2] p., 31 plates showing 232 figs.; [VOL 2: 1839] 8°: [i]-xxii, [1]-744 p., 31 plates showing 234 figs. PAGE SIZE: 202 x 115 mm.

CONTENTS: [Vol 1] [i-ii], Title page, verso blank.; [iii], Dedication to Andr. Jof. freiherrn von Stifft.; [iv], Blank.; [v]-[viii], Text of dedication, dated 13 December 1831.; [ix]-xix, "Vorrede zur ersten Auflage."; xx, Nachschrift.; [xxi]-xxx, "Inhalt."; [1]-22, "Einleitung."; 23-314, "Erstes Hauptstück. Terminologie."; [315]-363, "Zweites Hauptstück. Systematik."; [364]-385, "Drittes Hauptstück. Nomenklatur."; [386]-416, "Viertes Hauptstück. Charakteristik."; [417]-524, "Die Charaktere der Klassen, Ordnungen, Geschlechter und Arten."; [1 pg], "Tafeln zu den Anfangsgründen der Naturgeschichte des Mineralreiches."; [1 pg], Blank.; [At end], 31 plates.

[Vol 2] [i-ii], Title page, verso blank.; [iii]-xx, "Vorrede."; [xxi]-xxii, "Inhalt."; [1]-716, "Fünftes Hauptstück. Physiographie."; [717]-733, "Deutsches Register."; [734]-739, "Englisches Register."; [740]-743, "Französisches Register."; 743-744, "Verichtigungen."; [At end], 31 plates.

VERY SCARCE. Part two was completed after Mohs death by F.X.M. ZIPPE.

REFERENCES: Dana's 7th (Bibliography): 77.

**3390. 2nd edition, 1838:** Anleitung | zum | Schürfen. | [double rule] | Auf Befehl der k.k. hohen Hofkammer | in Münz- und Bergwesen | verfaßt | von | Friedrich Mohs, | [...2 lines of titles and memberships...] | [rule] | Zweite verbesserte Auflage. | [tapered rule] | Wien. | Gedruckt bei Carl Gerold. | 1838.

8°: π<sup>7</sup> 1-138; 111ℓ.; [i]-xiv, [1]-207, [1] p. PAGE SIZE: 178 x 108 mm.

CONTENTS: [i-ii], Title page, verso blank.; [iii]-x, "Vorrede."; [xi]-xii, "Vorrede | zur | zweiten Auflage."; [1], Sectional title page, "Anleitung | zum | Schürfen."; [2], Blank.; 3-207, Text.; [1 pg], Blank.

VERY SCARCE. Improved edition of this introduction to geology and mining.

### 3391. — German, 1842.

Die ersten Begriffe der Mineralogie und Geognosie für junge praktische Bergleute der K.K. österreichischen Staaten im Auftrag der K.K. Hofkammer in Münz- und Bergwesen ... Herausgegeben nach seinem Tode. Wein, C. Gerold, 1842.

2 parts. 8°: 1. Th. Mineralogie – 2. Th. Geognosie. VERY SCARCE.

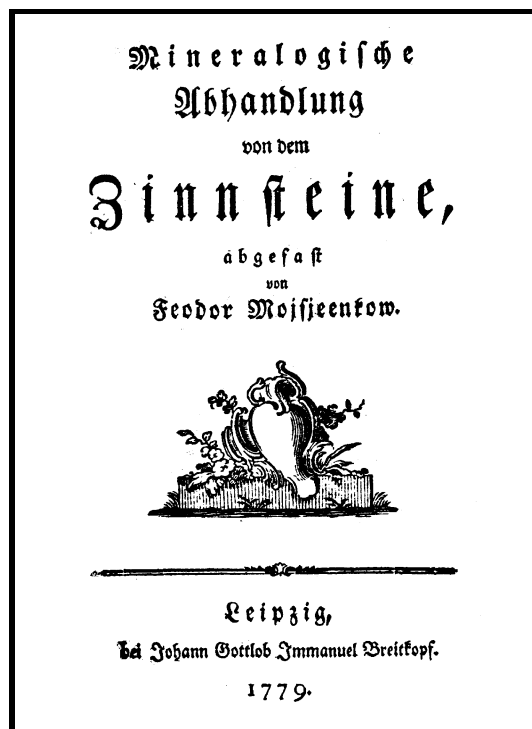
**MOISEIENKO, Fedor Petrovych.** (BORN: 11 November 1754; DIED: 24 September 1781) *Russian mineralogist & chemist.*

Became a member of the Russian Academy of Sciences in 1779.

REFERENCES: Raskin, N.M. and I.I. Shafranovskii, *Fedor Petrovich Moiseenko (1754-1781): Mineralog XVIII veka.* Leningrad, Nauka, 1974. 179 p., ill. [Biography of the Russian mineralogist F.P. Moiseenko.]. • Zvorykin, *Biograficheskii Slovar*, 1958: 2, 47.

### 3392. — German, 1779.

Mineralogische | Abhandlung | von dem | Zinnsteine, | abgefaßt | von | Feodor Moiseienkow. | [ornament] | [ornate rule] | Leipzig, | bei Johann Gottlob Immanuel Breitkopf. | 1779.



MINERALOGISCHE ABHANDLUNG, 1779

8°: 91, [1] p.

VERY SCARCE. Treatise on cassiterite.

REFERENCES: LKG: XVI 455. • Ward & Carozzi, *Geology Emerging*, 1984: no. 1598.

**MOISSAN, Henri.** (BORN: Paris, France, 28 September 1852; DIED: Paris, France, 20 February 1907) *French chemist.*

Moissan isolated the element fluorine, devised and perfected an electric furnace, prepared artificial diamonds, rare earth metals, and refractory compounds. He is credited with over three hundred publications. He received many awards throughout his career, including in 1906 the Nobel Prize for chemistry.

REFERENCES: ABF: I 746, 110-113; II 469, 191-206. • WBL.

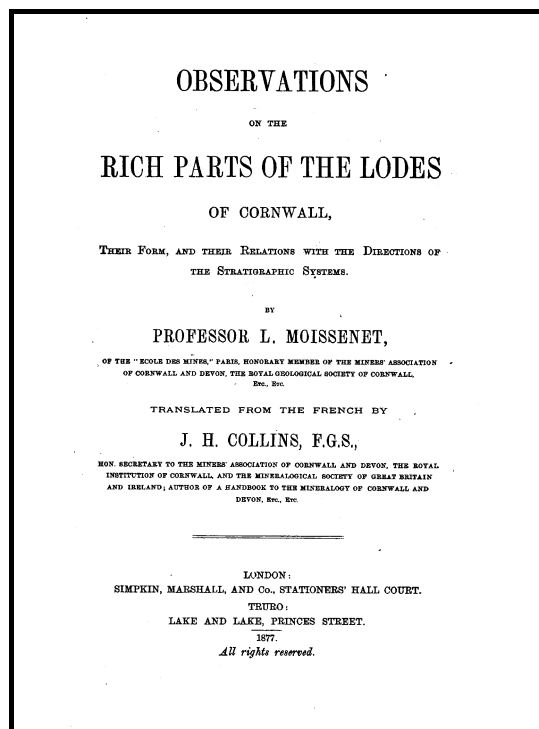
### 3393. — French, 1904-6 [First edition].

Traité de Chimie Minérale. Publié sous la direction de Henri Moissan ... Avec la collaboration de MM. Aloy, Andre et al. Secrétaire de la rédaction Marcel Guichard. Paris, Masson et Cie, 1904-1906.

5 vols.

SCARCE. The most authoritative French work on inorganic chemistry, edited by the noted French chemist who received the 1906 Nobel Prize in chemistry. Best known for his isolation of the element fluorine and his pioneering research in high-temperature chemistry, Moissan wrote many sections of this comprehensive collaborative effort which includes contributions by many other prominent French chemists.

REFERENCES: Partington, *History of Chemistry*, 1961-70: 4, p. 911-915. • Zeitlinger & Sotheran, *Bibliotheca*



OBSERVATIONS, 1877

*Chemico*, 1921-52: 2nd Suppl. 1, 730.

**MOISSENET, Vivant Léon.**

**3394. — English, 1877** [English transl.].

Observations | On The | Rich Parts Of The Lodes  
| Of Cornwall, | Their Form, and their Relations  
with the Directions of | the Stratigraphic Systems.  
| By | Professor L. Moissenet, | [...3 lines of titles  
and memberships...] | Translated From The French  
By | J.H. Collins, F.G.S., | [...4 lines of titles and  
memberships...] | [double rule] London: | Simpkin,  
Marshall, And Co., Stationers' Hall Court. | Truro:  
| Lake And Lake, Princes Street. | [rule] | 1877. |  
All rights reserved.

8°:  $\pi^6$  A-I<sup>8</sup> J<sup>5</sup>; 84 $\ell$ .; [i]-xii, [1]-152, [2] p, 8 plates  
(4 folding).

CONTENTS: [i-ii], Title page, verso blank.; [iii]-iv,  
"Translator's Preface."—signed J.H. Collins, 19 June  
1877.; v-vi, "Author's Preface."—signed L. Moissenet, 16  
June 1877.; vii-ix, "Table Of Contents."; [x], Blank.;  
xi-xii, "Contents Of The Plates."; [8 plates].; [1]-6,  
"Introduction."; [7]-102, Text.; 103-106, "Conclusion.";  
107-118, "Appendix. | Note A. | Explanation of Certain  
terms used in this Work, with the meaning | which is  
give to them in the theories of M. Elie de Beaumont."—  
signed L. Moissenet, 21 April 1877.; 119-126, "Note B. |  
A resisting bed being broken at right angles, ..."; 127-  
132, "Note C. | Description of the Dieagrams of Lodes  
Fc and Fa, Plates IV & V."; 133-141, "Note D. | On  
the numerical conditions of the eleven Ancient Systems  
in Corn- | wall, ..."; 142-145, "Note E. | On taking notes  
of the bearings and direction, and on there use of a compass

| graduated in octants."; [146]-150, "Index."; [151]-152,  
"List Of Subscribers." [=170 names; p. 152, "Lake & Lake  
Printers, Truro."]; [1 pg], "Shortly will be published, in  
demy octavo, | ..."; [1 pg], Blank.

PLATES: All the plates are signed Lake & Lake,  
Truro. They comprise: I. Copper mines & cross-sections  
(folding). II. "Turns" & "Warps." III. Effect of Granite  
Upheaval. IV. Lodes (folding). V. Lodes-vertical prfection  
(folding). VI. Lodes & cross-courses (folding). VII.  
Compass & diagrams. VIII. Sketches illustrating the  
Mountain Systems & the Réseau pentagonal of M. Elie de  
Beaumont.

VERY SCARCE. Translation by J.H. COLLINS of  
*Études sur les filons du Cornwall, parties riches des  
filons structure de ces parties et leur relation avec les  
directions des systèmes stratigraphiques* (Paris, 1874).  
This translation, limited to 400 copies, is a valuable  
and comprehensive work on Lode-Mining in the mines  
of Cornwall. The preparation of this English edition was  
commissioned by the Council of the Miners' Association  
of Cornwall and Devon for use by the engineer's in the  
area. It is probably the best record of the geology and  
techniques used in the mines, that produced so many  
unique mineral species.

The text is divided into two long chapters. The  
first describes the variations in the grade of mineralized  
veins, and gives advice on locating the richer portions.  
Moissenet notes that in Cornwall the rich parts are  
generally enclosed in rocks of moderate hardness and  
that the veins often dip in the same direction as the  
enclosing rocks. Chapter two provides general ideas  
on the mechanisms for the depositing of metalliferous  
substances in the region and descriptions of the general  
character of rocks and lodes in Cornwall. An appendix  
at the end, provides the first appearance in English of  
Elie de Beaumont's terms used in describing the relative  
ages of mountains.

REFERENCES: BL. • NUC.

**MOLDENHAUER, Karl Friedrich August.** (BORN:  
Gernode, Harz, Germany, 25 January 1797; DIED:  
Darmstadt, Hesse, Germany, 27 March 1866) *German  
apothecary, chemist & mineralogist.*

Moldenhauer was a professor of chemistry and  
mineralogy at the Realschule in 1835 and at the higher  
Gewerbschule in 1836 both at Darmstadt. Earlier in  
1824 he owned a mineral supply business in Heidelberg.  
Contributed to practical chemical fabrication.

REFERENCES: DBA: I 854, 2-4; II 906, 168, 173-177.

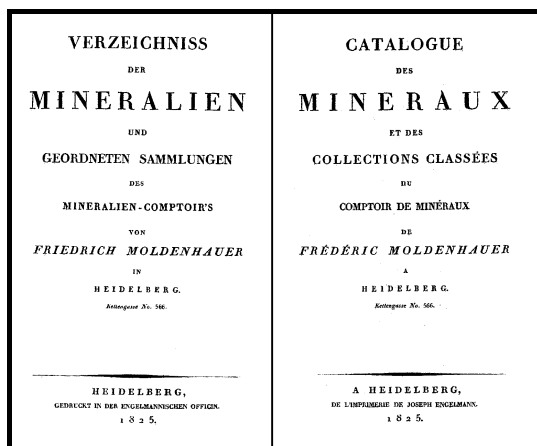
• *Deutsche Apotheker Biographie Supplement I*: 319-20. •  
*Hessische Biographien*. • Poggendorff: 2, col. 176. • WBI.

**3395. — German & French, 1825.**

Verzeichniss | Der | Mineralien | Und | Geordneten  
Sammlungen | Des | Mineralien-Comptoir's |  
Von | Friedrich Moldenhauer | In | Heidelberg.  
| Kettengasse No. 566. | [tapered rule] Heidelberg,  
| Gedruckt In Der Engelmannishen Officin. | 1825.

[ANOTHER TITLE PAGE:]

Catalogue | Des | Minéraux | Et Des | Collections  
Classées | Du | Comptoir De Minéraux | De  
| Frédéric Moldenhauer | A | Heidelberg. |  
Kettengasse No. 566. | [tapered rule] A Heidelberg,



MINERALIEN, 1825

| De L'Imprimerie De Joseph Engelmann. | 1825.  
8°:  $\pi^2$  1-2<sup>8</sup> 3<sup>4</sup>; 22 $\ell$ .; [4], [1]-40 p. PAGE SIZE: 196 x 122 mm.

CONTENTS: [2 pgs], Blank, verso title page in German.; [2 pgs], Title page in French, verso blank.; [1]-35, Text.; 35-40, "Anmerkungen. Remarques."

VERY RARE. This collection catalog describes specimens housed at a bank??. It consists of an alphabetical list giving short descriptions of 982 specimens. The text at the end, written in parallel columns of German and French, provides information on the storage of the collection and conditions of its sale.

### 3396. — German, 1838.

Grundriss | Der | Mineralogie | für | höhere Lehranstalten | bearbeitet | von | Dr. Fr. Moldenhauer, | Lehrer der Mineralogie und Chemie an der höhern Gewerb- und | Realschule zu Darmstadt. | [rule] | Mit 5 Steindrucktafeln. | [rule] | Karlsruhe, 1838. | Druck und Verlag von Christian Theodor Groos.

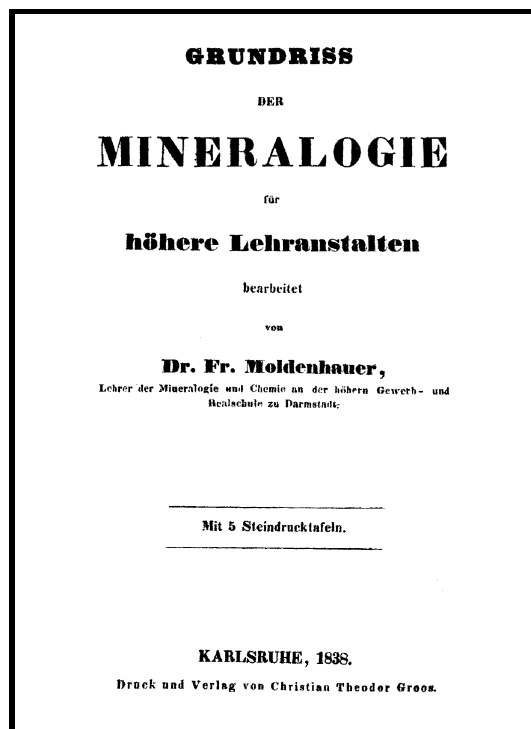
8°:  $\pi^9$  1-16<sup>8</sup> 17<sup>2</sup>; 139 $\ell$ .; [i]-xviii, [1]-262 p., 5 folding lithographic plates. PAGE SIZE: 220 x 137 mm.

CONTENTS: [i-ii], Title page, verso blank.; [iii]-vi, "Vorrede"—signed, "Der Verfasser," Autumn 1838.; [vii]-xviii, "Inhalt.," [1]-262, Text.; [At end], 5 folding plates.

PLATES: Bound at the end of the text are five folding lithographic plates showing crystal drawings and diagrams. Each is signed by F. Groll.

VERY RARE. In this book, Moldenhauer presents his own mineralogical classification. For crystallography, he relies upon the principals developed in GUSTAV ROSE's *Elemente der Krystallographie* (Berlin, 1833). For other chemical and physical properties the author has used a composite of several authors including Blum, Beudant, Breithaupt, Hartmann, Mohs, Naumann and Walchner.

The text begins with a very short introduction which is followed by the first large section of the work that focuses on terminology (pp. 4-133). Detailed descriptions and definitions are provided of



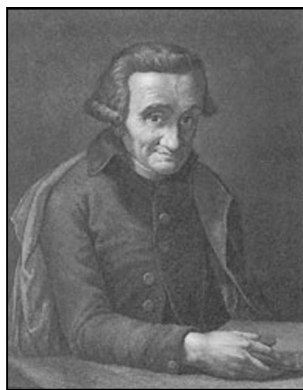
GRUNDRISS DER MINERALOGIE, 1838

physical and chemical properties, as well as standard procedures. The short second section explains how to use the previously described terminology in mineral descriptions (pp. 134-136). While the third (pp. 137-141) and fourth (pp. 142-43) discuss systematics and nomenclature, respectively. The fifth section consists of the descriptive mineralogy (pp. 146-253). The classification utilized appears to be wholly the invention of Moldenhauer. The system is divided into two large groups of stones and metals. Under stones the four classes of salts, spars, precious stones and earths are considered. The spars are classified according to their hardness (based upon Mohs scale) and the earths are distinguished by their specific gravity. Metals are broken into "Glanz", pyritic metals and semimetals. An appendix (pp. 254-262) covers mineral gases, coal and petroleum products, and minerals that are not completely defined.

**MOLINA, Juan Ignazio.** (BORN: Talca, Chili, 24 June 1740; DIED: Bologna, Italy, 12 September 1829) *Chilian Jesuit & naturalist.*

Molina was born in Chili entered the Jesuit college in Concepcion, where he studied languages and natural sciences. He was the librarian for the Jesuit order of St. Jago de Chili. After the expulsion of the Jesuits from the Spanish dominions, he became professor of natural sciences in Bologna.

REFERENCES: ABE: II 604, 56-62. • Barriga, Rodolfo Jaramillo., *El abate Juan Ignacio Molina, primer evolucionista y precursor de Teilhard de Chardin.* Santiago de Chile, 1963. • *Biographie Universelle.* • Figueroa, *Diccionario Biográfico de Chile*, 1888. • López Piñero, *Diccionario Histórico*, 1983: 2,



MOLINA

69. • *Nouvelle Biographie Générale* (Hoefel). • Poggendorff: 2, col. 177. • WBI.

**3397. — Italian, 1782** [First edition, issue A].

*Saggio sulla Naturale del Chili*, del Signor Abate Giovanni Ignazio Molina. Bologna, Stamperia di S. Tommaso d'Aquino, MDCCLXXXII.

8°: 367, [1] p.

RARE. Important, early natural description of the country of Chile, in which the author analyzes its rich mining, geography, hydrography, geology, mineralogy, botany, and zoology. It remains the classic work on the natural history of Chili, with the observations of A.F. Frézier and Feuillée incorporated into the text by Molina. It was important enough that it was relatively quickly translated in several languages.

REFERENCES: BL: [979.1.27.]. • Brunet: 3, 1811. • LKG: XIV 907. • Sabin, *Dictionary*, 1868-1936: no. 49888.

**3398. — Italian, 1787** [First edition, issue B].

*Saggio sulla Naturale del Chili*, del Signor Abate Giovanni Ignazio Molina. Bologna, Stamperia di S. Tommaso d'Aquino, MDCCLXXXII.

8°: 333, [1] p., one map. RARE.

REFERENCES: Sabin, *Dictionary*, 1868-1936: no. 49888.

**3399. 2nd edition, 1810:** *Saggio sulla Naturale del Chili*, del Signor Abate Giovanni Ignazio Molina ... Seconda Edizione, Accresciuta e Arricchita di una Nuova Carte Geografica e del Ritratto dell' Autore ... Bologna, Fratelli Masi e Comp., 1810.

4°: [6], v, 306, [2] p., frontispiece (portrait), one map. RARE.

REFERENCES: BL: [981.i.16.]. • Pritzel, *Thesaurus Literaturæ Botanicae*, 1871-3: no. 6362. • Sabin, *Dictionary*, 1868-1936: no. 49888.

**3400. 1786:** Versuch einer Naturgeschichte von Chili. Von Abbé J. Ignaz Molina. Aus dem Italiänischen übersetzt von J.D. Brandis. Mit einer Landcharte ... Leipzig, Bey Friedrich Gotthold Jacobäer, 1786.

8°: [18], 328 p., one map.

RARE. Translation by J.D. Brandis of *Saggio sulla naturale del Chili* (1782).

REFERENCES: BL: [727.e.1.]. • LKG: XIV 908a. • Sabin, *Dictionary*, 1868-1936: no. 49892.

**3401. 1788:** Compendio de la Historia Geografica, Natural y Civil del Reyno de Chile, escrito en Italiano por el Abate Don Juan Ignacio Molina. Primera Parte, que abraza la Historia Geografica y Natural, Traducida en Español por

Don Domingo Joseph de Arquellada Mendoza ... Parte Segunda, Traducida al Españõl, y Aumentada con varias notas por Don Nicolas de la Cruz y Bahamonde. En Madrid, por Don Antonio de Sanca, M. DCC. LXXXVIII [-MDCCXVC].

2 vols. [VOL 1: 1788] 4°: xx, 418 p. [VOL 2: 1795] 4°: xvi, 382, [1] p., 4 maps, 3 tables.

VERY SCARCE. Translation by Joseph de Arquellada Mendoza of *Saggio sulla naturale del Chili* (1782). "This Spanish translation is more complete than the Italian original, many notes being added by the translator to the second part. It contains a philological sketch of the Chilean language, comparative vocabularies, and a list of writers upon Chili." (Sabin)

REFERENCES: Sabin, *Dictionary*, 1868-1936: no. 49889.

**3402. American edition, 1808:** The Geographical, Natural and Civil History of Chili. Translated from the Original Italian of the Abbe Don J. Ignatius Molina. To which are added, Notes from the Spanish and French Versions, and an Appendix, containing copious Extracts from the Araucana of Don Alonzo de Ercilla. Translated from the Original Italian by an American Gentleman ... Middletown (Connecticut), For I. Riley, 1808.

2 vols. [VOL 1] 8°: [8], xii, 271, [1] p. [VOL 2] 8°: [4], viii, 305, [1], 68 p.

VERY SCARCE. This is a classic history of this South American country written by the Chilean-born Jesuit scholar and first published in Bologna in 1782-87. There are sections on the climate and natural history of Chili; its early Spanish history and noted explorers; division of the Araucanian state; the Araucanians and their customs; military incidents throughout the years; an essay on the language of the country with various grammars and much more. Volume two is devoted almost entirely to the Araucanian Indians. Bound at the end of the second volume is another work entitled "An Appendix to the Civil and Political History of Chili," which bears the imprint of Alsop, Brannan and Alsop and is published in New York in 1808.

This book was translated by an American millionaire, Richard Alsop, considered the most intellectually gifted of the "Hartford Wits". This English translation incorporates the originally two separate works: *Saggio sulla storia naturale del Chili*. Bolgna (1782) and *Saggio sulla storia civile del Chili* (1787). It precedes the London edition by a year. A large folding map of Chili is bound in the first volume.

REFERENCES: Palau, *Manual*, 1948-77: no. 174566. • Sabin, *Dictionary*, 1868-1936: no. 49893 & 49894n. • Shaw & Shoemaker, *American Bibliography*, 1958-83: no. 15628.

**3403. 1809:** The | Geographical, | Natural, And Civil | History Of Chili. | Translated From The Original Italian Of | The Abbe Don J. Ignatius Molina. | [double rule] | To Which Are Added, | Notes | From The Spanish And French Versions, | And Two Appendixes, | By The English Editor; | The First, An Account Of The Archipelago Of Chiloe, From The | Description Historical Of P.F. Pedro Gonzalez De Aqueros; | The Second, An Account Of The Native Tribes Who Inhabit The | Southern Extremity Of South America, Extracted Chiefly | From Falkner's Description Of Patagonia. | [double rule] | In Two Volumes. | [double rule] | Vol. I. | [tapered rule] | Printed For Longman, Hurst, Rees, And Orme, | Paternoster-Row. | [rule] | 1809.

2 vols. [VOL 1] 8°: xx, 321 p. [VOL 2] 8°: xii, 385 p., one map.

VERY SCARCE. This edition is apparently a reworking of the American edition of 1808, with some alterations and additions, but without any acknowledgement of the American edition. The translators were Richard Alsop and William Shaler, Esq. It contains additional notes from the Spanish and French versions, and two appendixes added by the English editor: "An Account Of the Archipelago of Chiloe from the description historical of P.F. Pedro Gonzalez de Agueros" and "An Account of the Native Tribes Who Inhabit the Southern Extremity of South

America extracted chiefly from Falkner's Description of Patagonia."

REFERENCES: BL: [579.d.20.]. • Sabin, *Dictionary*, 1868-1936: no. 49894.

**3404. 1789:** Essai sur l'Histoire Naturelle du Chili par M. l'Abbé Molina; Traduit de l'Italien, et Enrichi de Notes, par M. Gruvel, D.M. ... A Paris, Née de la Rochelle, M. DCC. LXXXIX.

8°: xvi, 352 p.

VERY SCARCE. French translation from the Italian edition, with added notes by Gruvel. It includes a Chilean and French vocabulary.

REFERENCES: BL: [978.g.28.]. • LKG: XIV 909b. • Sabin, *Dictionary*, 1868-1936: no. 49890.

**MOLL, Herman.** (BORN: ?; DIED: 1732) *English geographer.*

REFERENCES: Allibone, *Dictionary of English Literature*, 1859-71. • BBA: I 775, 283-285. • Watt, *Bibliotheca Britannica*, 1824. • WBI.

### 3405. — English, 1724.

A new description of England and Wales, with the adjacent islands. Wherein are contained, diverse useful observations and discoveries in respect to natural history, antiquities, customs, honours, privileges, &c., with a particular account of the products, trade, and manufactures of the respective places of every county ... Together with many uncommon observations concerning mines of several sorts ... To which is added, a new and correct set of maps of each county ... By Hermann Moll, geographer. London, Printed for H. Moll, etc., 1724.

2°: [2], xi, [1], 343, x p., maps. Title in red and black. VERY SCARCE.

REFERENCES: BL: [191.e.9.]. • LKG: XIV 413.

**MOLL, Karl Ehrenbert (Erembert), Freiherr von.** (BORN: Talgau near Salzburg, Austria, 21 December 1760; DIED: Augsburg, Germany, 1 February 1838) *German aristocrat & naturalist.*

From 1790 until 1804 Von Moll was chancellor of the Exchequer for Salzburg. He then retired to private life in Munich and Augsburg where he devoted himself to natural history. In 1807 he was elected a member of the Académie der Wissenschaften (Academy of Science) in Munich, where he was secretary in the class of mathematics and physics until 1827. In 1815 his personal library and a portion of his extensive mineral collection was purchased by the British Museum. It was particularly rich in minerals from Salzburg and Tyrol. Another portion was later acquired by the Bavarian Academy of Science.

REFERENCES: ADB: 22, 114. • Cleavelly, *World Palaeontological Collections*, 1983: 206. • DBA: I 854, 364-400; II 907, 29-33. • Hamberger & Meusel, *Gelehrte Teutschland*, 1796-1834. • Neuer Nekrolog der Deutschen. • Österreich Biographisches Lexikon. • Poggendorff: 2, col. 178 & 1429. • WBI. • Wilson, *History of Mineral Collecting*, 1994: 184. • Wurzbach, *Biographisches Lexikon Österreich*, 1856-91.

### 3406. — German, 1784-5.

Naturhistorische Briefe über Oestreich, Salzburg, Passau und Berchtesgaden. Salzburg, J.J. Mayers, 1785.

2 vols. [VOL 1: 1784] 8°: [8], 332 p. (Vol. 1, p. 272 and 318 incorrectly numbered 472 and 280 respectively). [VOL 2: 1785] 8°: xxx, [2], 457, [6] p., 6 fine folding engraved plates (three of which are printed in reddish-brown ink), one large folding engraved map, and two folding printed tables.

VERY SCARCE. Co-authored with Franz von Paula Schrank [1747-1835]. This is a handsomely illustrated account of the travels of Schrank and Moll. Their journey is described in a series of delightful letters with colorful and full descriptions of the flora, fauna, agriculture, minerals, local industries and customs, etc. A section on the "Flora berchtesgadensis," is contained in the second volume, pp. 155-323.

**Franz von Paula Schrank.** (BORN: 1747; DIED: 1835) *German botanist.* Schrank was a professor of botany at the University of Munich and first director of the botanical garden of that University.

REFERENCES: BL: [956.c.9.]. • LKG: XIV 246. (Schrank) Poggendorff.

### 3407. — German, 1787.

Oberdeutsche Beyträge | zur | Naturlehre und Oekonomie | für das Jahr | 1787. | [rule] | Gesammelt und herausgegeben | von | Karl Ehrenbert von Moll, | [...4 lines of titles and memberships...] | [vignette] | Mit V. Kupfertafeln. | [double rule] | Salzburg, in der Jos. Mayers & Erben Buchhandlung, 1787.

8°: 72, 293 (i.e., 193), [2] p., frontispiece (folding; view of the Watzmann mountain), 5 plates (folding). Title vignette.

VERY RARE. This is a collection of works on natural history subjects all edited by Moll. Included are: Pascal Joseph Ferro, "Das Gebirgswasser bey dem Königsee in Berchtesgaden", Bernhard Haim, "Chemische Versuche", Franz von Paula Schrank, "Beschreibung einer neuen Wasserseide", "Mikroskopische Unterhaltungen", "Über die Gebirgswolken", "Kleine Reise nach Weltenburg" and others Johann Helfenzrieder, "Beschreibung einer Freyleiter", etc.

REFERENCES: BL: [964.e.13.]. • LKG: VI 92. • Österreich Biographisches Lexikon: 6, 353. • Wurzbach, *Biographisches Lexikon Österreich*, 1856-91: 19, 5.

### 3408. — German, 1797 [Periodical].

Nebenstunden des Berg- und Hüttenmanns. Band I. Salzburg, Mayr, 1797.

8°: lxvi, 500, [2] p., 8 folding, engraved plates. Engraved title vignette.

RARE. With the *Nebenstunden* Moll was intending to publish a series of yearbooks with articles on mineralogy, geology, and mining; however, only this first volume appeared.

REFERENCES: Poggendorff: 2, col. 178. • Roller & Goodman, *Catalogue*, 1976: 2, 204.

### 3409. — German, 1797-1801 [Periodical].

Jahrbücher der Berg- und Hüttenkunde. Salzburg, Mayr, 1797-1801.

## MONARDES

5 vols. in 6. 8°, with 11 folding engraved plates, 5 folding tables.

VERY RARE. Edited by Moll, these five volume form the complete series of the year books on mining and metallurgy which was continued under the title *Annalen der Berg- und Hüttenkunde* (Annals of Mining and Metallurgy).

REFERENCES: Poggendorff: 2, col. 178. • Roller & Goodman, *Catalogue*, 1976: 2, 5.

### 3410. — German, 1829-35.

Mittheilungen aus seinem Briefwechsel. Prodromus seiner Selbstbiografie. (in 50 Abdrücken.). [Augsburg, Privately Printed by Volkhart], 1829-30-34-35.

4 vols. [VOL 1: 1829] 8°: [8], 248 p. (A-G). [VOL 2: 1830] 8°: [8], 249-600 p. (H-Q). [VOL 3: 1834] 8°: [8], 601-933, [1] p. (R-V). [VOL 4: 1835] 8°: [8], 935-1419, [2] p. (W-Z and supplement). Three lithographed plates (one printed on both sides) and diagrams & illus. in the text. Title vignette.

RARE. Privately printed correspondence of Von Moll of which only 50 examples were published. Included are Von Moll's letters to and from many important people of his time, including Beckmann, Bernoulli, Blumenbach, Brongniart, Eschwege, Gmelin, Gruner, Haüy, Jacobi, Thomas Jefferson, Karsten, Klaproth, Pallas, Sage, Siebold, Suckow, Trebra, and Volta. Subjects of the letters are wide ranging and include music, art, mining, and science especially mineralogy. As referenced in the title, Moll annotations of the letters act as a prospectus to an autobiography of his interesting life.

REFERENCES: ADB: 22, 114. • BL: [010920.e.24.]. • *Freilich Sale Catalog*: no. 400 & 401. • Poggendorff: 2, col. 1429.

**MOLNÁR, János.** (BORN: Csécsény, Hungary, 13 January 1728; DIED: Szepesváralja, Hungary, 15 February 1804) *Hungarian naturalist*.

REFERENCES: DBA: I 855, 257-268. • Hamberger & Meusel, *Gelehrte Teutschland*, 1796-1834. • Jöcher, *Gelehrten-Lexikon*, Supplement. • *Magyar Életrajzi Lexikon*: ?? . • Papp, *Magyar Topografikus*, 2002: p. 136. • WBI. • Würzbach, *Biographisches Lexikon Österreich*, 1856-91.

### 3411. — Latin, 1780.

*Oryctologicon, complexum historiae naturalis mineralium*. Buda, 1780.

8°: 91 p.

VERY RARE. The *Oryctologicon* was published as the third volume of the author's *Physiologicon Complexum Historiæ Naturalis Regna Tria* (Budae, Typis Regiae Universitatis, 173-80; v1. [4], 78 p., v2. [4], 105 p., v3. 91 p.). It is written in Latin verse and is reported to be the first mineralogical textbook by a Hungarian author.

REFERENCES: BL: [no copy listed]. • Papp, *Magyar Topografikus*, 2002: p. 136.



MONARDES

**MONARDES, Nicholas Baptist.** (BORN: Sevilla, Spain, c1493; DIED: Sevilla, Spain, 1588) *Spanish physician, naturalist & metallurgist*.

Monardes studied at the University of Alcalá, where he received the rank of bachelor in arts and philosophy (1530) and a bachelor of medicine (1533). He was influenced in his studies by Elio Antonio de Nebrija, a great humanist. In 1547, he became an instructor in medicine at the University of Seville, where he remained until his death at a very old age. Besides his expertise in medicine, he participated in mercantile companies, among which was the commerce of medicines and the traffic of slaves.

REFERENCES: ABE: I 615, 177-204; II 605, 181-259. • Jöcher, *Gelehrten-Lexikon*, 1750-51. • Jöcher, *Gelehrten-Lexikon*, Supplement. • López Piñero, *Diccionario Histórico*, 1983: 2, 69-72. • *Nouvelle Biographie Générale* (Hoefer). • Picatoste, *Biblioteca Científica Española*, 1891. • WBI.

### 3412. — Spanish, 1575.

Primera y segunda y tercera partes de la historia medicinal de las cosas que se traen de nuestras Indias Occidentales que sirven en medicina ; Tratado de la piedra bezaar, y dela yerua escuerconera ; Dialogo de las grandezas del hierro, y de sus virtudes medicinales ; Tratado de la nieve y del beuer frio hechos por el doctor Monardes medico de Seuilla ... En Seuilla, En casa de Alonso Escruiano, 1574.

4°: [6], 206, [2]ℓ., illus.

VERY RARE. Descriptions of the medicines derived from plants, animals and minerals, especially the Bezoar stones, discovered in the new world.

REFERENCES: Arents: 19. • BL: [C.81.c.20.]. • Colmiero, *La Botanica*, 1858: 229. • Hunt Botanical Catalog: no. 119. • Sabin, *Dictionary*, 1868-1936: no. 49938. • Wellcome Catalog (Books): 1, no. 4392.

**3413. 2nd edition, 1580:** Primera y segunda y tercera partes de la historia medicinal de las Cosas que se traen de nuestras Indias Occidentales, que sirven en medicina. Tratado de la Piedra Bezaar, y dela yerua Escuerconera. Dialogo de las grandezas del hierro, y de sus virtudes medicinales. Tratado de la nieve, y del beuer frio ... Van en esta impresion la tercera parte y el Dialogo del Hierro nuevamente hechos, que no han sido impressos hasta agora,

... Sevilla, 1580.

4<sup>o</sup>: [7], 162ℓ., woodcut portrait. VERY SCARCE.

REFERENCES: BL: [953.h.3.].

### Latin editions

**3414. Latin transl., 1574:** De Simplicibvs | Medicamentis | Ex Occidentali India | Delatis, Qvorvm In | Medicina Vsvs Est. | Auctore D. Nicolao Monardis | Hispalensi Medico; | Interprete Carolo Clvsio Atrebate. | [ornament] | Antverpiæ, | Ex officina Christophori Plantini, | Architypographi Regij. | M. D. LXXIIII.

8<sup>o</sup>: A-E<sup>8</sup> F-G<sup>4</sup>; 48ℓ.; [1]-88, [8] p. woodcuts of plants and animals in the text. Includes index.

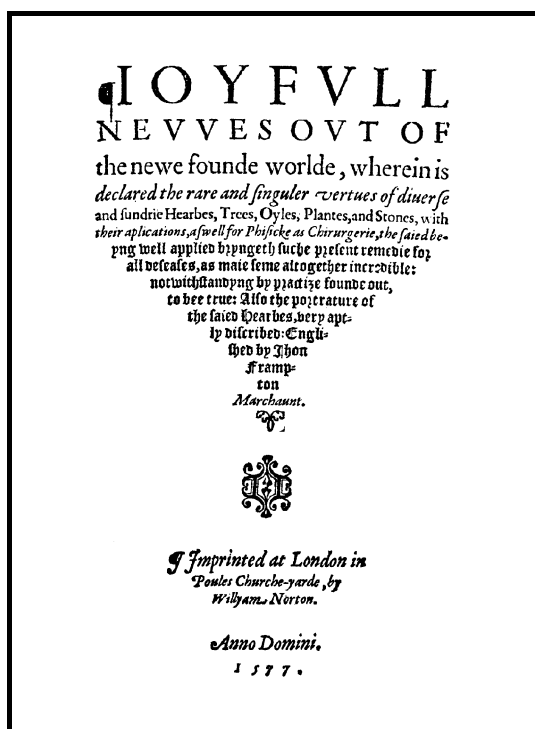
VERY SCARCE. This is an abbreviated Latin translation by Charles de l'Escluse [see note below] of Monardes' *Dos libros* ... (1565) and *Segunda parte* ... (1571) that described the medicinal discoveries of the New World.

With, probably as issued: *Aromatum et simplicium aliquot medicamentorum apud Indos nascentium historia primum quidem Lusitanica lingua per dialogos conscripta*, D. Garcia ab Horto ... auctore. Antuerpiae: Ex officina Christophori Plantini ..., 1574.

**Charles de l'Escluse.** (BORN: 1526; DIED: 1609) *Dutch*. l'Escluse, better known by the Latin Carolus Clusius ....

BIOGRAPHY NEEDED

REFERENCES: Arents: 18. • Hunt Botanical Catalog: no. 118. • Pritzel, *Thesaurus Literaturæ Botanicae*, 1871-3: no. 6366. • Wellcome Catalog (Books): 1, no. 4394. (l'Escluse) Aa, *Biographisch Woordenboek*, 1852-78. • BAB: 147, 49-133; 147, 137; 209, 215-216; 220, 354-362. • Jöcher, *Gelehrten-Lexikon*, 1750-51. • Kobus, *Biographisch Woordenboek*, 1886. • WBI.



IOYFVLL NEVVES, 1577

### English editions

**3415. English transl., 1577:** ¶Ioyfvll | Nevves Ovt Of | the newe founde worlde, wherein is | declared the rare and singular vertues of diuerse | and sundrie Hearbes, Trees, Oyles, Plantes, and Stones, with | their aplications, aswell for Phisicke as Chirurgie, the said be- | yng well applied bryngeth suche present remedie so, | notwithstanding by practize founde out, | to bee true: Also the portrature of | the said Hearbes, very apt= | ly described: Engli= | shed by Jhon | Fram= | ton | Marchaunt. | [ornament] | [ornament] | ¶Imprinted at London in | Poules Church- yarde, by | William Norton. | Anno Domini. | 1577.

2<sup>o</sup>: 3 p.ℓ., 109 numb. ℓ., [2] p., illus. PAGE SIZE: 180 x 140 mm. VERY SCARCE.

**Facsimile reprint, 1925:** Joyfull Newes | Out Of The | Newe Founde Worlde | Written In Spanish By | Nicholas Monardess | Physician Of Seville | And Englished By | John Frampton, Merchant | Anno 1577 | With an Introduction by | Stephen Gaselee | London: Constable and Co., Ltd. | New York: Alfred A. Knopf | 1925. [BL 012207. bb. 1/5.]

**3416. English transl., 1580:** [Contained within a border:] ¶ Ioyfull Newes | out of the new found world, | wherein are declared the rare and | singular vertues of diuers and sundrie | Herbs, Trees, Oyles, Plants & Stones, | with their applications, aswell to the vse | of Phisicke, as Chirurgie: which being wel | applied, bring such present remedie for | all diseases, as may seeme altogeth- | ther incredible: notwith- | standing by practize found | out, to be true. | Also the portrature of the sayde | Herbes, very aptly described: En- | glished by John Frampton | Merchant. | Newly corrected as by conference with | the olde copies may appeare. | Wherevnto are | added three other bookes treating of the Bezaar | stone, the herbe Escuerconera, the properties of | yron and steele, in Medicine and the benefite of | snowe. | Imprinted at London, in Paules | Churchyard at the signe of the Quenes [sic] | Armes, by William Norton. | 1580.

4<sup>o</sup>: \*4 A-Yy<sup>4</sup> Zz<sup>2</sup>; 185ℓ.; [4], 181, [1]ℓ. Title within ornamental border.

VERY SCARCE. Contributors Frampton, John, fl. 1577-1596

First issue of the second enlarged edition—cf. Hunt botanical cat., no. 137.

On half title to pt. 2: Written by Doctor Monardus ...

Separate t.p., leaf [112]: A book which treateth of two medicines ...; separate t.p., leaf [139]: The dialogue of yron ...; leaf [171]: The booke which treateth of the snow ... Leaf \*1, a blank, and 2Z2, colophon leaf.

Materia medica—Latin America—Early works to 1800. Snow—Early works to 1800.

REFERENCES: Hunt Botanical Catalog: no. 137. • STC: no. 18006.

**3417. English transl., 1596:** Joyfull newes out of the new-found worlde. Wherein are declared, the rare and singular vertues of diuers herbes, trees, plantes, oyles and stones, with their applications, as well to the use of phisicke, as of chirurgery ... Also the portrature of the said hearbs ... Englished by John Frampton ... Newley corrected ... Whereunto are added three other bookes treating of the bezaar stone, the herb escuerconera, the properties of iron and steele, in medicine, and the benefit of snow ... London, Printed by E. Alde, by the assigne of Bonham Norton, 1596.

4<sup>o</sup>: [3], 187 (i.e., 180)ℓ. Title page with woodcut border, woodcuts, ill. Each of the "three other books" has special half title.

VERY RARE. This is a translation by John Frampton, [fl. 1577-1596], a merchant who spent most of his life in Spain, of Monardes' *Primera y segunda y tercera partes de la historia medicinal de las cosas que se traen de nuestras Indias occidentales qui sirven en medicinal* published at Seville in 1574.

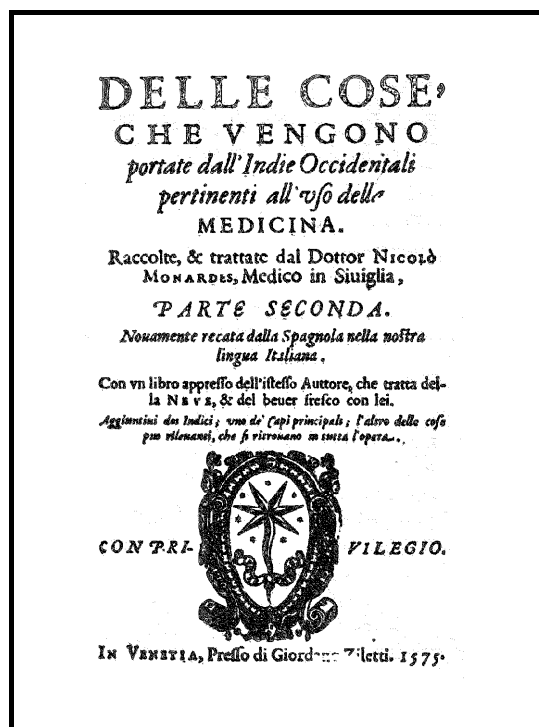
"A booke which treateth of two medicines most excellent against all venome, which are the bezaar stone, &



## MONNET

the hearbe escuerconera ... Newley complied by Doctor Monardus of Seville. 1574. Translated ... by John Frampton. 1580": leaves [111r]-138r; "The dialogue of yron ... An echo for the Doctor Monardus ... In Seville in the house of Alonso Escrivano": leaves 139r-163v; "The boke which treateth of the snow ... Written by Doctor Monardus ... 1574": leaves 173r [i. e. 164r]-187v (i. e. 180v).

REFERENCES: STC: 18007. • Wellcome Catalog (Books): 1, no. 4397.



DELLE COSE', 1575

### Italian editions

**3418. Italian transl., 1575:** Delle cose che vengono portate dall'Indie Occidentali pertinenti all'uso della medicina. Raccolte, & trattate dal dottor Nicolò Monardes, medico in Siviglia, parte prima. Nuovamente recata dalla spagnola nella nostra lingua italiana ... Parte seconda. Venetia, G. Ziletti, 1575.

2 vols. in one. 8°: [16], 140, [4] p.; [8], 159, [17] p.

VERY SCARCE. Vol. 1 is a translation of the author's Dos libros, el vno trata de todas las cosas q trae de nras Indias Occidentales, que siruen al vso de medicina; v. 2, a translation of his Segunda parte del libro, de las cosas que se traen de nuestras Indias Occidentales. The 2 pts., with an additional 3d pt., were later republished with title Primera y segvnda y tercera partes de la historia medicinal. MS. notes (4 p.) bound in before Pte. 2.

The De simplicibus Medicamentis ex Occidentali India delatis, quorum in Medicina usus est, by Nicolò Monardo (Monardes), a Spanish physician, translated into Latin by Charles de l'Ecuse, is a small book of 88 pages with descriptions of plants and illustrations. Different species from the New World are presented in a highly descriptive manner, including American copal, cinchona, sarsaparilla, dragons blood, balsam, Brazilian bean and hot pepper. Also included are descriptions of some animals

such as the armadillo and some mineral remedies such as the lapis sanguinalis and the lapis Caymanus.

The first Italian edition of this classic work, preceded by Spanish editions printed in Seville in 1565, 1569, and 1574, and by several adaptations and condensations. According to Sabin and LeClerc, this first Italian edition, translated by Annibale Briganti, is very rare. Monardes' work, describing medicinal plants found in the New World, was among the first to describe tobacco, as well as more healthful plants found in the Americas. Its appeal was widespread. It may be better known to English readers by the title of its 1580 translation, JOYFULL NEWES OUT OF THE NEW FOUNDE WORLDE. Illustrated with handsome woodcuts of the plants. SABIN 49939.

REFERENCES: Medina, *Bibliotheca Hispano-Americana 1493-1810*: 1, 237. • Sabin, *Dictionary*, 1868-1936: no. 49939. • Wellcome Catalog (Books): 1, no. 4396.

**3419. Italian transl., 1582:** Delle cose, che vengono portate dall'Indie Occidentali pertinenti all'uso della medicina raccolte, & trattate dal dottor Nicolò Monardes ... nuovamente recata dalla spagnola nella nostra linguaitaliana ... In Venetia, Appresso Giordano Ziletti, 1582.

8°: a<sup>8</sup> A-Q<sup>8</sup> (a8 and G8 blank); ??ℓ.; [16], 249 [i.e. 243], [13] p. Title vignette (printer's device). Includes index. Numerous errors in pagination.

VERY SCARCE. With, probably as issued: Due libri dell'historia de i semplici ... / di Don Garzia dall'Horto. In Venetia : Appresso Francesco Ziletti, 1582.

Pte. 1 (libro 1-2) is a translation of the author's Dos libros, el vno trata de todas las cosas ... que siruen al vso de medicina ... : el otro libro, trata de dos medicinas maravillosas ... Pte. 2 is a translation of the author's Segunda parte del libro, de las cosas que se traen de nuestras Indias Occidentales, que sirvan al vso medicina : de se trata del tabaco, y de la sassafras ... va anadido vn libro de la nieue ... Pte. segunda, p. [113]-249 [i.e. 243] has separate t.p. with imprint: Appresso Francesco Ziletti. Dedicatory letter, signed Giordano Ziletti, dated 1574. At head of p. [214]: Libro che tratta della neve.

REFERENCES: Hunt Botanical Catalog: no. 141. • Wellcome Catalog (Books): 1, no. 4396.

### German editions

**3420. German transl., 1615:** [Dialogo del hierro, y de sus grandezas] Translated from the Spanish by C. Clusius. Leipzig, 1615.

8°: VERY SCARCE.

REFERENCES: LKG: XVI 243.

**MONNET, Antoine-Grimoald.** (BORN: Champeix, Auvergne, France, 1734; DIED: Paris, France, 23 May 1817) *French mining expert, chemist & mineralogist.*

Monnet was appointed France's first inspector-general of mines in 1774, and as a consequence, he traveled extensively in Alsace and the German states to study metallurgy and mining. Most of his publications are the result of these activities and are centered on mineralogy, mining, and metallurgy.

REFERENCES: ABF: I 751, 27-36; II 471,406. • Clough, R.T., *A treatise on the exploitation of mines. Antoine Grimoald Monnet. A forgotten French chemist and metallurgist, 1734-1817.* Leeds, England, The Author, 1974. xvi, 43 p., frontis, 25 plates.. • DSB: 9, 478-9. • Feller, *Biographie Universelle*, 1851. • *Nouvelle Biographie Générale* (Hofer). • Poggendorff: 2, cols. 187-8. • Rappaport, R., "The geological atlas of Guettard, Lavoisier, and Monnet: conflicting views of the nature of geology" (pp. 272-287), in: Schner, C.J., ed., *Towards a history of geology.* Boston, Mass., M.I.T. Press, 1969. • Rappaport, R., "The early disputes between Lavoisier and Monnet, 1771-1781," *British Journal for the History of Science*, 4 (1969), no. 15, 233-44. • Sarjeant, *Geologists*, 1980: 3, 1738. • Tardieu, *Grand Dictionnaire Biographique*, 1878. • WBI.

**3421. — Latin, 1774** [Dissertation?].

Dissertation sur l'Arsenic, qui a remporté le prix proposé par l'Académie Royale [of Berlin] pour l'année 1773. Sur la question Quel est le véritable but auquel la nature semble avoir destiné l'Arsenic dans les mines? Peut-on en particulier démontrer, par des expériences faites ou à faire, si, comment, et jusqu'à quel point il sert, soit à former les métaux, soit à les perfectionner, ou à produire en eux d'autres changements nécessaires et utiles. Berlin, 1774.

8°: RARE.

REFERENCES: BL: [B.246.(5.)]. • LKG: XVI 101.

**3422. — French, 1779.**

Nouveau Système | De Minéralogie, | Ou | Essai d'une nouvelle exposition du Règne | minéral, auquel on a joint un Supplément | au Traité de la Dissolution des Métaux, | avec des observations Relatives au Dic- | tionnaire de Chymie. | Par M. Monnet, Inspecteur général des | [...2 lines of titles and memberships...] | [ornament] | A Bouillon, | a la Société Typographique, | Et se trouve à Paris, chez Jombert, Fils | amé, Libraire, rue Dauphine. | [double rule] | M. DCC. LXXIX.

12°: viii, 597, [3] p.

RARE. Monnet, as inspector of mines, developed an enthusiastic interest in mineralogy. In this work, a "New System of Mineralogy" he attempts to create a classification based primarily on chemistry. He includes references to many contemporary German and Swedish scientists. In a supplement he describes methods for dissolving metals in acid that defends his positions against allegations made by Macquer in his *Dictionnaire de Chymie*.

**Prospectus(?), 1772:** *Catalogue Raisonné Mineralogique, ou Introduction à la Mineralogie*. Paris, 1772.

REFERENCES: BL: [990.a.18.]. • BMC: 3, 1337. • *Freilich Sale Catalog*: no. 402. • LKG: XII 68a\*. • NUC: [no copy listed].

**3423. — French, 1772.**

Exposition des mines, ou Description de la nature et de la qualité des mines : à laquelle on a joint des notices sur plusieurs mines d'Allemagne & de France; & une dissertation pratique sur le traitement des mines de cuivre, traduite de l'Allemand, de A Londres ; et se trouve à Paris : Chez P. Fr. Didot le jeune, libraire de la Faculté de Médecine de Paris ... : [Chez] Edme, libraire ..., 1772.

12°: xij, 396 p. "Dissertation pratique ...," p. 274-391, is an annotated translation, by Monnet, of Franz Ludwig von Cancrin's *Abhandlung von Zubereitung u. Zugutmachung der Kupfererze*, 1765. "Dissertation pratique ...," p. 274-391, is an annotated translation VERY SCARCE.

**MONTICELLI, Teodoro Celestino, Abate.** (BORN: Brindisi, Italy, 5 October 1759; DIED: Pozzuoli, Italy, October 1846) *Italian cleric, philosopher, mineralogist & vulcanologist*.

A Benedictine monk, Monticelli was from 1792-4 professor of ethics at the University of Naples. He then accepted a political position until 1800. From 1808, he was professor of chemistry at the University of Naples. Monticelli was a member and standing secretary of the Academy of Science of Naples. His studies were of the geology and minerals of Vesuvius and the Phlegraen Fields. His collections were acquired by the Real Museo Mineralogico in Naples.

REFERENCES: ABI: I 674, 60-69; II S 56, 292. • Barr, *Index to Biographical Fragments*, 1973: 182. • Cleevely, *World Palaeontological Collections*, 1983: 207. • *Enciclopedia Biografica Cattolicesimo*. • Poggendorff: 2, col. 196 & 1429. • *Proceedings of the Geological Society, London*: 1846, 146-7 [by L. Horner]. • Sarjeant, *Geologists*, 1980: 3, 1739-40. • Scherillo, *Storia del 'Real Museo Mineralogico'*, 1965. • WBI.

**3424. — Italian, 1823.**

Storia | De'Fenomeni Del Vesuvio, | Avvenuti negli anni 1821, 1822 e parte del 1823, | con | Osservazioni E Sperimenti | Di T. Monticelli, | Segretario perpetuo della R. Accademia delle Scienze ec. | e N. Covelli, | Socio del R. Istituto d'Incoraggiamento e di varie | Accademie stranere; | Letta nella Reale Accademia delle Scienze. | [ornament] | Napoli, | febbrajo 1823. | Dai Torchi del Gabinetto Bibliografico e Tipografico, | Largo S. Biagio de' Librai n° 41.

4°:  $\pi^4$  b<sup>6</sup> 1-25<sup>4</sup> 25<sup>8</sup>; 118 $\ell$ .; [i]-xix, [1], [1]-208, [8] p., one folding table (p. 126), 4 folding plates (showing Vesuvius). PAGE SIZE: 208 x 130 mm.

CONTENTS: [i-ii], Half title page, "Storia | De'Fenomeni Del Vesuvio, | Avvenuti Nel Corso Degli Anni 1821, 1822 | E Parte Del 1823," verso blank.; [iii-iv], Title page, verso blank.; [v], Dedication to Girolamo Ruffo.; [vi], Blank.; vii-xix, "Prazione.," [1 pg], Blank.; 1-208, Text.; [2 pgs], "Spiegazione Delle Tavole.," [1 pg], "Errata Corrigere.," [1 pg], Blank.; [2 pgs], "All' Eccellentissimo Signor," signed Gaetano Parroco Giannattasio.; [1 pg], "Presidenza.," [1 pg], Blank.

VERY SCARCE. Co-authored with N. Covelli. The text describes observations made by the authors on Mount Vesuvius in the years 1821 to 1823, and read before the Accademia delle Scienze.

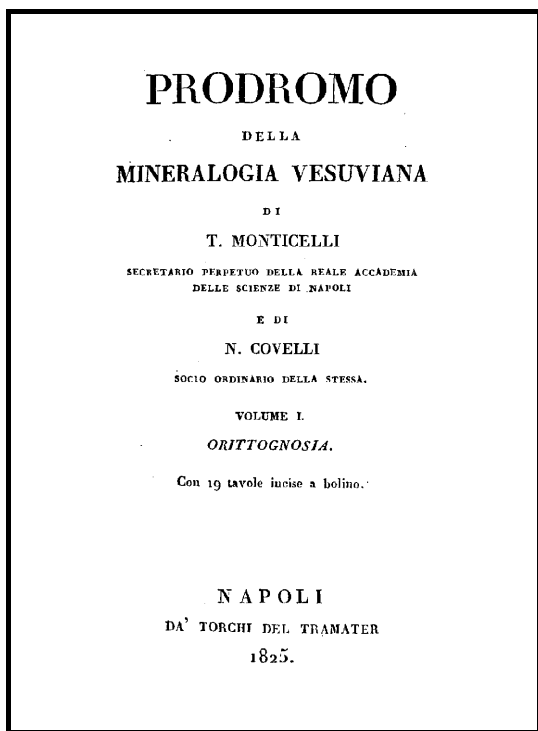
**Nicola Covelli.** (BORN: 1790; DIED: 1829) *Italian chemist & vulcanologist*.

**3425. — Italian, 1825.**

Prodromo | Della | Mineralogia Vesuviana | Di | T. Monticelli | Segretario Perpetuo Della Reale Accademia | Delle Scienze Di Napoli | E Di | N. Covelli | Socio Ordinario Della Stessa. | Volume I. | Oritognosia. | Con 19 tavole incise a bolino. | Napoli | Da' Torchi Del Tramater | 1825.

8°:  $\pi^8$  B<sup>10</sup> 1-29<sup>8</sup> 30<sup>11</sup>; 261 $\ell$ .; [i]-xxxiv, [2], [1]-483, [3] p., 19 folding plates. PAGE SIZE: 222 x 136 mm.

CONTENTS: [i-ii], Title page, verso blank.; [iii]-xiii, Dedication to Ferdinando I, signed Teodoro Monticelli and Nicola Covelli.; [xiv], Blank.; [xv]-xvi, "Copia.," xvii-xxxiv, "Introduzione.," [2 pgs], Blanks.; [1]-444,



PRODROMO, 1825

Text.; [445]-460, "Indice Metodico."; [461]-470, "Indic Alfabetico."; [471]-480, "Spiegazione Delle Tavole."; 481-483, "Addizioni."; [1 pg], Blank.; [1 pg], Errata.; [1 pg], "A.S. Ecc.<sup>a</sup> Reverend." [all dated April, 1825].

VERY SCARCE. No more published, although an appendix appeared in 1839 [which see next entry]. Co-authored with Niccola Covelli [see note below]. Together Monticelli and Covelli frequently traversed the slopes of Vesuvius, examining the volcanic ejecta and formations. This work is the first portion of a work to describe the whole of their discoveries. Although this is the only portion to appear, it is a remarkably comprehensive and detailed examination of the minerals found in and around Vesuvius.

**Niccola Covelli.** (BORN: 1790; DIED: 1829) *Italian chemist & vulcanologist.*

REFERENCES: Dana's 7th (Bibliography): 77. (Covelli) ABI: I 330, 45-58. • Casati, *Dizionario degli Scrittori d'Italia*, 1925-34. • De Tipaldo, *Biografia degli Italiani*, 1834-45. • *Dizionario Biografico Italiani*: 30, 521-4. • Poggendorff: 1, col. 490. • WBI.

**3426. Appendix, 1839:** Appendice | Al Prodromo | Della | Mineralogia Vesuviana | Di | T. Monticelli | E Di | N. Covelli | Napoli | Da' Torchi Del Tramater | [short rule] | 1839.

$\pi^8$  2<sup>6</sup>; 14 $\ell$ .; [1]-28 p., 4 folding plates (of Ætna). PAGE SIZE: 222 x 136 mm.

CONTENTS: [1-2], Title page, verso blank.; [3]-8, Text.; 9-25, "Sunto | Delle aggiunzioni da farsi al Prodromo | della Mineralogia Vesuviana."; 26-28, "Sunto | della parte geologia."

RARE. This appendix provides additional information to the previous *Prodromo* that described the mineralogy of Vesuvius.

**3427. 2nd edition, 1843:** [General title page:] Philippi Caolini | Regiae Neapolitanae | Scientiarum Academiae Socii | Vita | Auctore | Theodoro Monticelli | Academiae Eidem A Segretis | Editio Secunda. | [ornate rule] | Neapoli | Typis Ariosti | [short rule] | 1843.

[TITLE PAGE OF PRODROMOUS:]

Prodoromo | Della | Mineralogia Vesuviana | Di | Teodoro Monticelli | [one line of titles and memberships] | e de Nicola Covelli | [one line of titles and memberships] | Volume I. | Orittognosia | con 19 tavole incise a bolino. | [tapered rule] | Napoli | Tipografia Dell' Ariosto | [short rule] | 1843.

4<sup>o</sup>:  $\pi^3$  2-53<sup>4</sup> 54<sup>3</sup>; 215 $\ell$ .; [1]-430 p., 19 pages of crystal drawings. PAGE SIZE: 220 x 178 mm.

CONTENTS: [3-4], Series title page, verso blank.; [5]-24, "Philippi Caolini | Vita."; [25]-54, "Adnotationes."; [55-56], Blanks.; [57]-71, "Elogio | Di | Vincenzo Petagna."; [72]-81, "Note | Del Cav. | Monticelli | Lette | "; [82], Blank.; [83], Title page of Prodromous.; [84], Blank.; [85]-430, Text.; [At end], 19 plates of crystal drawings.

VERY SCARCE. This collected edition of Monticelli's writings contains a reissue of the 1825 *Prodromous della Mineralogia Vesuviana*, together with reprints of his other minor writings.

MONTRIBLOUD, M. de. *French.*

**3428. — French, 1782** [Sale catalog, issue A].

Catalogue Raisonné d'Histoire Naturelle et de Physique, qui compose le Cabinet de M. de Montriblound. Lyon, Jacquenod; Paris, Durand, 1782.

8<sup>o</sup>: [4], 367 p.

RARE. First edition, first issue, with the title page dated 1782. Describes Montriblound's large collection of natural history specimens, ethnographical artifacts and scientific instruments. The "Avertissement" describes the collection's formation over 25 years, and that the chief sources were the famous cabinets of DEZALLIER D'ARGENVILLE, Madame de Boisjournain and DAVILA. The collection was rich in shells, plants and minerals and consisted of 2,795 lots in all (with many items in a large number of lots). Included are 152 lots of scientific instruments including the electrical machines of Franklin and Nollet. Many American examples are represented.

The sale was supposed to have occurred in 1783, but was postponed until 1784, when this catalog was reissued with a new title page and an additional text.

REFERENCES: BL.

**3429. Sale catalog, issue B, 1784:** Catalogue Raisonné d'Objets d'Histoire Naturelle et d'Instrumens de Physique, qui composent le Cabinet de M. de Montriblound, dont la vente se fera le vendredi 13 Février 1784, et jours suivans de relevées, Hôtel de Buillon, rue Plâtrière ... Paris, Chez Dufresne naturaliste, rue Princesse, Faubourg Saint-Germain, 1784.

8<sup>o</sup>: [4], 367, 35 p.

VERY SCARCE. Reissue of the original catalog with the addition of 35 pages.

REFERENCES: Laissus, *Cabinets d'Histoire Naturelle*, 1964: p. 677-8.

**MOORE, Nathaniel Fish.** (BORN: Newtown, Long Island, New York, U.S.A., 25 December 1782; DIED: Highlands of the Hudson, New York, U.S.A., 7 April



MOORE

1872) *American scholar, librarian, educator & mineral collector.*

Moore graduated from Columbia College in 1802. He was admitted to the legal profession in 1805, but he preferred classical studies. In 1817, he was appointed adjunct professor and in 1820 professor of Latin and Greek at Columbia College. He resigned the position in 1835, and in 1838, after two years of travel in Europe and the Holy Land, he returned to become librarian of the college, to which he sold his own great library of classics. In 1842, he became president of the college, but resigned in 1849. In 1851, he made a tour of Europe, during which he visited the World's Fair in London, and became highly interested in the new art of photography, to which he subsequently devoted much study.

REFERENCES: ABA: I 1135, 214-216; 1138, 335-341; II 423, 67. • DAB: 7, pt. 1, 134-5. • Drake, *Dictionary of American Biography*, 1872: 632. • Herringshaw's *National Library of American Biography*. • Moore, N.F., *A trip from New York to the Falls of St. Anthony in 1845*. Edited by Stanley Pargelis and Ruth Lapham Butler. Chicago, University of Chicago Press for The Newberry Library, 1946. xviii, 101 p., frontispiece (portrait), illus., plates, maps. • *National Cyclopaedia of American Biography*: 6, 345, portrait. • Sarjeant, *Geologists*, 1980: 3, 1744. • WBI. • White, *History of Geology*, 1973. • *Who Was Who in America*: Historical volume, 434.

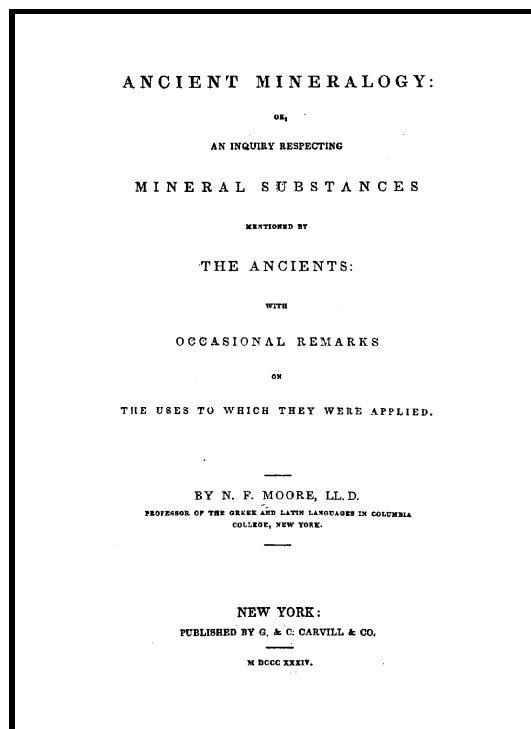
### 3430. — English, 1834 [First edition].

Ancient Mineralogy: | Or, | An Inquiry Respecting  
| Mineral Substances | Mentioned By | The  
Ancients: | With | Occasional Remarks | On The  
Uses To Which They Were Applied. | [rule] | By  
N.F. Moore, LL.D. | Professor Of The Greek And  
Latin Languages In Columbia | College, New York.  
| [rule] | New York: | Published By G. & C. Carvill  
& Co. | [rule] | M DCCC XXXIV.

8°:  $\pi^2$ , 1-146 1156 2154; 96 $\ell$ .; [1]-192 p., index.  
PAGE SIZE: 186 x 108 mm.

CONTENTS: [i-ii], Title page, verso copyright notice.;  
[iii], "Preface."; [4], Blank.; [5]-187, Text.; [188], Blank.;  
[189]-192, "Index."

RARE. This book contains discussions of mineral substances mentioned by a great many of the ancient writers, especially Dioscorides, Pliny and Theophrastus.



ANCIENT MINERALOGY, 1834

In addition, Biblical references to minerals are discussed at length, including the foreign and domestic sources of minerals known to the Israelites and the foreign trade and travel indicated by their mention. A section on "Metallic Substances, Earths, &c., Employed as Pigments by the Ancients" is a valuable source of reference to terms of colors and pigments in classical literature, for localities from which the materials were derived, and the methods of preparation. Another feature useful in the present day are the lists of Latin names with their modern interpretation and lists of books in several languages that include material on ancient mineral terms and references to sources. This history of ancient mineralogy, is notable for the citations of almost all the ancient writers from Homer to Vitruvius and for the exact references in the text and in footnotes to the literature. An index at the end lists the 200 minerals discussed in the text or in the footnotes.

Facsimile reprint, 1978: New York, Arno Reprint, 1978. 8°: 192, 2 p. ISBN: 0-405-10452-9. Photographic reprint of the original 1834 edition.

REFERENCES: Sinkankas, *Gemology Bibliography*, 1993: no. 4567.

3431. 2nd edition, 1859: Ancient Mineralogy; | Or, | An Inquiry Respecting | Mineral Substances | Mentioned By | The Ancients: | With Occasional Remarks | On | The Uses To Which They Were Applied. | By N.F. Moore, LL.D. | Second Edition. | New York: | Harper & Brothers, Publishers, | Franklin Square. | 1859.

8°: [i]-[vi], [7]-250, [1]-12 p. PAGE SIZE: 176 x 103 mm.

## MORISON

CONTENTS: [i-ii], Title page, verso blank.; [iii]-iv, "Preface to the first edition."; [v], "Preface to the second edition."; [vi], Blank.; [7]-245, Text.; [246], Blank.; [247]-250, "Index."; [1]-12, "List of books published by Sampson Low, Son, and Co. ..."

VERY SCARCE. Although the text has been reset, the text is essentially the same as the 1834 edition; however, more references to ancient literature appear in the numerous footnotes. The work maintains the same high scholarly value.

**London issue, 1859:** Ancient Mineralogy; | Or, | An Inquiry Respecting | Mineral Substances | Mentioned By | The Ancients: | With Occasional Remarks | On | The Uses To Which They Were Applied. | By N.F. Moore, LL.D. | Second Edition. | London: | Sampson Low, Son, & Co., 47, Ludgate Hill. | New York: | Harper & Brothers | [rule] | 1859. 8°: [i]-iv, [5]-250, [1]-12 p. Only the title page has been reset.

REFERENCES: Dana's 7th (Bibliography): 77. • Sinkankas, *Gemology Bibliography*, 1993: nos. 4568 & 4569.

## MORALES, Gaspar de.

### 3432. — Latin, 1605.

Libro De Las | Virtvdes Y Pro- | piedades marauillosas de las | piedras preciosas. | Compuesto por Gaspar de Mo- | rales Boticario. | Dirigido a nuestra Señora del | Pilar de Zaragoza. | [ornament] | Con Privilegio. | En Madrid por Luis Sanchez: | Año M. DC. V. | [rule] | A costa de Blas Gonzaçalez, mercader de libros.

8°: A-Aaa<sup>8</sup>; 384<sup>l</sup>.; [8], 378 (i.e., 372), 4<sup>l</sup>. Treatise describing the virtues and supposed medical properties of various precious stones. RARE.

REFERENCES: BL. • Gatterer, *Mineralogischen Literatur*, 1798-9: 2, 7 & 25. • LKG: XVI 197. • Sinkankas, *Gemology Bibliography*, 1993: no. 4582. • Thorndike, *History of Magic*, 1923-58: 7, 241-2.

## MORESINI, Thomas.

See: Morison (moresini, Moresinus), Thomas.

**MORGAN, Percy Gates.** (BORN: 1867; DIED: 1927) *New Zealand mining engineer.*

REFERENCES: *Australasian Biographical Archive*: 278, 48-50. • *Cyclopedia of New Zealand*. • WBI.

### 3433. — English, 1913.

List of the Minerals of New Zealand. By P.G. Morgan and J.A. Bartrum. Wellington, New Zealand, 1913.

8°: 32 p.

VERY SCARCE. Written with John A. Bartrum.

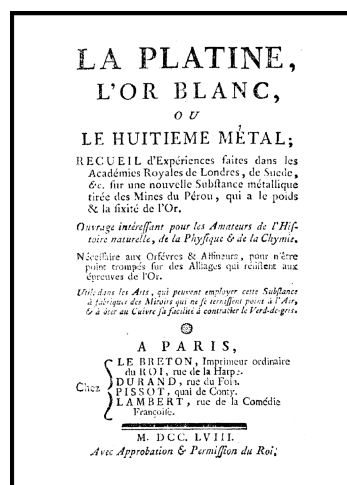
REFERENCES: BMC: 7, 918.

## MORIN, Jean.

REFERENCES: Poggendorff: 2, cols. 205-6 ??.

### 3434. — French, 1758.

La Platine, | L'Or Blanc, | Ou | Le Huitieme Métal; | Recueil d'Expériences faites dans les | Académies Royales de Londres, de Suede, | &c. sur une nouvelle Substance métallique | tirée des Mines du Pérou, qui a le poids | & la fixité de l'Or. | Ouvrage intéressant pour les Amateurs de l'His-



LA PLATINE, 1758

toire naturelle, de la Physique & de la Chymie. | Nécessaire aux Orfèvres & Affineurs, pour n'être | point trompés sur des Alliages qui réusent aux | épreuves de l'Or. | Utile dans les Ars, qui peuvent employer cette Substance | à fabriques des Mitoits qui ne se ternissent point à l'Air, | & à ôter au Cuivre sa facilité à contrather le Verd-de-gris. | [ornament] | A Paris, | Chez [the next 6 lines braced on the left by a {:] Le Breton, Imprimeur ordinaire du Roi, rue de la Harpe. | Durand, rue du Foies. | Possot, quai de Contiy. | Lambert, rue de la Comédie | François. | [double rule] | M. DCC. LVIII. | Avec Approbation & Permission du Roi.

8°: xvi, 194, [6] p., one folding plate.

VERY SCARCE. "Platinum, though vaguely known in the 16th century, was first described by W. Watson to the Royal Society in 1750 with some pieces sent to London by Dr. Brownrigg, who had obtained them from South America." (Duveen).

REFERENCES: Duveen, *Bibliotheca Alchemica et Chemica*, 1965: p. 414. • LKG: XVI 367. • McDonald, *History of Platinum*, 1960. • Neu, *Chemical, Medical & Pharmaceutical Books*, 1965: no. 2850. • Sabin, *Dictionary*, 1868-1936: no. 63350.

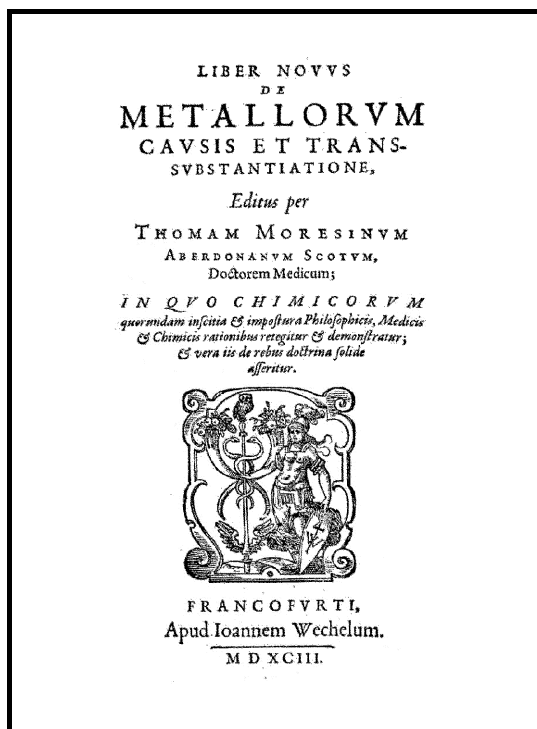
**MORISON (Moresini, Moresinus), Thomas.** (BORN: Aberdeen, Scotland, 1558?; DIED: Aberdeen, Scotland, 1603?) *Scottish physician & diplomat.*

Moresini was a physician who had studied at Montpellier and later became a successful diplomat in the services of Essex, the Earl of Huntly, etc.

REFERENCES: BBA: I 789, 323-330. • Chamber's *Scottish Biographical Dictionary*, 1996. • DNB: 13, 960-1. • *Eminent Scotsmen*: ??, ??, • Watt, *Bibliotheca Britannica*, 1824. • WBI.

### 3435. — Latin, 1593.

Liber Novvs | De | Metallorvm | Cavsis Et Trans- | svbstantiatione, | Editus per | Thomam Moresinvm | Aberdonanvm Scotvm, | Doctorem Medicum; | In Qvo Chemicorvm |



LIBER NOVUS DE METALLORUM, 1593

quorundam inscitia & impostura Philosophicis, Medicis | & Chemicis rationibus retegatur & demonstratur; | & vera iis de rebus doctrina solide | asseritur. | [ornament] | Francofurti, | Apud Ioannem Wechelum. | [rule] | M D XCIII.

8°: A-H<sup>8</sup> I<sup>2</sup>; 66<sup>l.</sup>; 1-130, [2] p., woodcut ornament on the title page. Woodcut initials and headpieces.

CONTENTS: [1-2/=A1], Title page, verso blank.; 3-8 (=A2r-A4v), Dedication, "Invictissimo Regi Sco- | torvm Iacobo Sexto S." [=James IV].; 9-130 (=A5r-I1v), Text, beginning "De Metallo- | rvm Cavis, Eorvm- | Qve Metamor- | phosj."; [1 pg/=I2r], "Ivdicivm Ivlii Cæsa- | ris Scaligeri, In Exotericis | ..."; [1 pg/=I2v], Blank.

VERY RARE. This is the first published work of Moresini of Aberdeen (Scotland). It is dedicated to James VI and is directed as an attack against alchemists and astrologers. Moresini did not believe in the transmutation of one metal to another or the influence of the Sun or planets on metals here on earth. The author's principal patron was the Earl Anthony Bacon, the brother of Francis Bacon, who also maintained a correspondence with him. This work mentions the minerals and their preparations used by the alchemists.

REFERENCES: Adams, *Cambridge Books*, 1967: M-1793. • BL: [1033.e.3.(5)]. • Caillet, *Manuel*, 1912: ["*Traité curieux et rare, sur la transmutation métallique*"]. • Duveen, *Bibliotheca Alchemica et Chemica*, 1965: p. 413. • LKG: XVI 19. • NUC: 395, 347 [NM 0782918]. • Rosenthal, *Bibliotheca Magica et Pneumatica*, 1907: no. 606. • Wellcome Catalog (Books): 1, no. 4460.

MORO, Antonio Lazzaro. (BORN: San Vito

al Tagliamento, Italy, 1687; DIED: San Vito al Tagliamento, Italy, 1764) *Italian theologian & geologist*.

Priest from Verona who wrote a remarkable work, *De' Crostacei e degli altri Marini Corpi* (1740), where he proposes his theories on the changes of earth after the creation.

REFERENCES: ABI: I 680, 130-150; II 402, 146-152. • De Tipaldo, *Biografia degli Italiani*, 1834-45. • DSB: 9, 531-4 [by R. Thomasian]. • Jöcher, *Gelehrten-Lexikon*, Supplement. • Poggendorff: 2, col. 210. • WBI.



DE' CROSTACEI, 1740

### 3436. — Italian, 1740.

De' | Crostacei | E Degli Altri | Marini Corpi | Che si trovano su' monti. | Libri Due | di Anton-Lazzaro | Moro. | [vignette] | Venezia | [rule] | Appresso Stefano Monti | Con Licenza De' Superiori, E Privilegio. | Si venda preso Angiolo Geemia, in Morgeria, all'insegna della Minerva. | MDCCXL.

4°: xiv, 452 p., title vignette, 8 engraved plates.

RARE. One of the most important books in the early history of geology. This is the author's best known and most controversial work. Moro was interested in the fossils he found in the mountains and how they came to be there. In the *De' Crostacei e degli altri Marini Corpi* Moro speculates on the organic nature of fossils. He affirmed the theory that mountains and most islands were formed by volcanoes and thought that stratified rock was igneous in origin. His most original thoughts in this area consisted of the idea that two kinds

## MOSCARDO

of mountains existed, Primitive and Secondary, each of different age and composition. This theory, elaborated on by others, later became the foundation for studies in historical geology.

REFERENCES: Adams, *Birth and Development*, 1938. • DSB: 9, 531-4. • LKG: XVII 25. • Zittel, *History of Geology*, 1901: p. 32.

**3437.** German transl., 1751: *Neue Untersuchung der Veränderungen des Erdbodens. Aus dem Italien.* Leipzig, 1751.

8°: VERY SCARCE.

2nd edition, German transl., 1755: Second edition 1755.

REFERENCES: LKG: XVII 26a.

**MORTON, John.** (BORN: England, 18 July 1670/1; DIED: Great Oxendon, Northamptonshire, England, 18 July 1726) *English theologian & naturalist.*

Morton was educated at Cambridge University, receiving the degrees of B.A. (1691) and M.A. (1695). He was a clergyman in the Anglican Church, becoming Curate of Great Oxendon, 1694-1706 and Rector of Great Oxendon from 1706-26. In 1703, he was elected a Fellow of the Royal Society.

REFERENCES: Allibone, *Dictionary of English Literature*, 1859-71. • BBA: I 793, 67-69. • DNB: 13, 1050-1. • Wake, H.T., "Epitaph on the Rev. John Morton," *Notes and Queries*, 1st ser., 6, 358. • Watt, *Bibliotheca Britannica*, 1824.

**3438.** — English, 1712.

The Natural history of Northampton-shire; with some Account of the Antiquities. To which is annex'd, a Transcript of Doomsday-Book, so far as it relates to that County. London, Printed for R. Knaplock and R. Wilkin, 1712.

2°: [4], iv, 551, 46, 10 p., large folding hand-colored double-page map by John Harris, 14 plates with the coat-of-arms of each dedicatee hand-colored by van der Gucht after P. La Vergne.

RARE. This is Morton's only publication. In this work he followed Woodward's proposition that the deluge was responsible for the geological features of the county and for its fossils. Therefore, the text deals largely with figured fossils, of which it contains several plates.

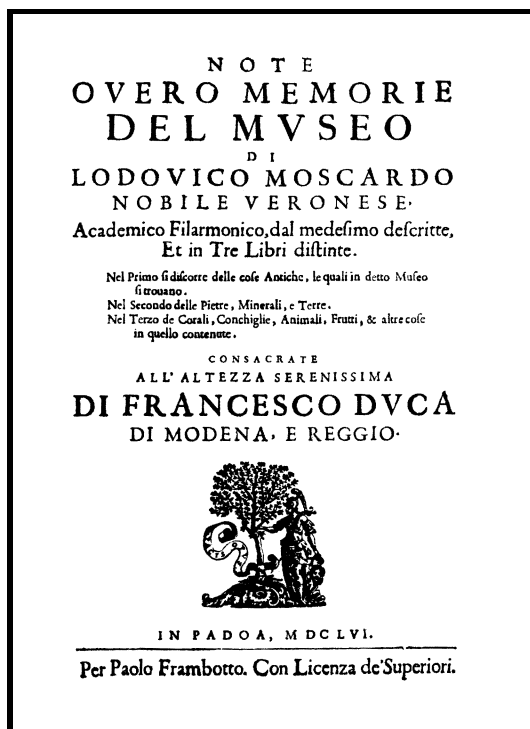
In a letter of 1704 Morton speaks of the encouragement of gentlemen and noblemen of Northamptonshire, which enables him to pursue his natural history of the county. The work was published by subscription, the new device for making publications then coming into practice.

REFERENCES: BL: [L.R.38.c.26.]. • BMC: 3, 1356. • LKG: XIV 412. • Smith, *Early Mineralogy in Great Britain*, 1978.

**MOSCARDO, Ludovico Luigi, Conte.** (BORN: Verona, Italy, ; DIED: Verona, Italy, ) *Veronese nobleman & philharmonic academician.*

Moscardo was a great collector of natural history objects, and obtained around 1642 part of FRANCESCO CALZOLARI's collection. Eventually this collection passed to the Miniscalchi family, where the remains may be seen today as part of the Miniscalchi Foundation in Verona.

REFERENCES: Wilson, *History of Mineral Collecting*, 1994: 40 & 184.



MVSEO DI LODOVICO MOSCARDO, 1656

**3439.** — Italian, 1656 [First edition].

Note | Overo Memorie | Del Mvseo | Di | Lodovico Moscardo | Nobile Veronese | Academico Filarmonico, dal medesimo descritte, | Et in Tre Libri distinte. | Nel Primo si discorre delle cose Antiche, le quali in detto Museo | si trouano. | Nel Secondo delle Pietre, Minerali, e Terre. | Nel Terzo de Corali, Conchiglie, Animali, Frutti, & altre cose | in quello contenute. | Consacrate | All' Altezza Serenissima | Di Francesco Dvca | Di Modena' E Reggio. | [ornament] | In Padoa [sic], MDCLVI. | [rule] | Per Paolo Frambotto. Con Licenza de' Superiori.

2°:  $\pi^3 \S^6$  A-Z<sup>4</sup> Aa-Pp<sup>4</sup> Qq<sup>2</sup> Rr<sup>6</sup>; 170 $\ell$ .; [18], [1]-306 (i.e., 307), [12] p. Elaborate engraved title, plus 114 text engravings, mostly half-page to three-quarters-page in size. Woodcut printer's device on title and initials, plus typographic headpieces. Italic shoulder notes. PAGE SIZE: 288 x 195 mm.

CONTENTS: [2 pgs], Title page, verso blank.; [2 pgs], "Altezza Serenissime."; [2 pgs], "A Chi Legge."; [8 pgs], "Elogium."; [4 pgs], "Indice De Capitoli."; 1-305 (i.e., 306), Text.; 306 (i.e., 307), "Il Fine."; [11 pgs], "Indice | Delle Cose più Nobtabili contenute | in tutta l'Opera."; [1 pg], "Errata."; [1 pg], Blank.

VERY SCARCE. A richly illustrated description of a typical seventeenth century Italian museum which was the hobby of a wealthy collector. Assembled by the Veronese antiquary Moscardo over some 30 years in the

tradition of the humanist's "studiolo," it contained a wide variety of objects described in an introductory verse by a visitor to the house as forming "a world in themselves." The Moscardo collection incorporated the collection of FRANCESCO CALZOLARI of Verona, which was one of the earliest private museums in Italy.

The first section describes and illustrates his antiquities: Roman statues, portrait busts, coins, urns, stelle, perfume bottles, votive objects, seals, oil lamps, lapidary inscriptions and jewelry. The section also includes Egyptian scarophagi, fragments of a giant's bones, and some Renaissance medals.

The second section lists over 100 minerals as well as petrified objects and fossils. The final section comprises corals, shells and preserved aquatic creatures (such as crocodiles, a sting ray, a swordfish, a seahorse, a shark, and even the mythical basilisk), fruits, seeds, pods, beans, gums and ointments, a harpy, the bones of giants of whom the poets tell us, a small collection of phallic amulets, musical instruments, paintings and drawings, American Indian shoes, and at the end a large assault catapult. There are many interesting discussions as well, such as a section on magnets and others on the properties of various metals and minerals. Among the items illustrated and discussed are a Greek "fibula gymnastica," which is a chastity ring for men that will "conserve the voice and the health." This is the first illustrated sexual device. The collection was seen by Ray in 1663 and by Gilbert Burnet in 1685 but disappears from history thereafter. The many striking engravings are all by the Veronese artist Alberto Pasi and have a naive kind of charm in the expressions of faces and animals and are attractively shaded.

REFERENCES: BL: [435.g.21.]. • Dance, *Shell Collecting*, 1966: 39. • *Freilich Sale Catalog*: no. 404. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 279. • LKG: XVII 120\*. • Murray, *Museums*, 1904: 1, 84 & 3, 34. • Nissen (ZBI): no. 2898. • NUC: 396, 674 [NM 0806826]. • Sinkankas, *Gemology Bibliography*, 1993: no. 4611. • Wilson, *History of Mineral Collecting*, 1994: 218.

**3440. 2nd edition, 1672:** [In red:] Note | [in black:] Overo Memorie | [in red:] Del Mvseo | [in black:] Del | Conte Lodovico Moscardo | Nobile Veronese | Uno Del Padre Nell'Accademia Filaromonica, | Dal medesimo descritte in Trè Libri | Nel primo si discorre delle cose anitche; che in detto Museo | si ritrovano. | Nel secondo delle Peitre, Minerali, e Terre. | Nel terzo de Corali, Conchiglie, Animali, Frutti, de altre | cose in quello contenute. | Furono consacrate, nella prima edizione alla Gloriosissimo | memoria | Dell'Altezza Serenissima | [in red:] Di Francesco Fv Duca | [in black:] Di Modena E Reggio | Con l'aggiunta in questa Seconda Impression della Seconda | parte dello Hesso Autori, | accresciuta di cose spettanti particolarmente all'antichità, | Con l'Indice d'uno | gran parte delle sue Medagli, & Pittore, come arco della | ritratti de | Principi, & altri Illustri huamini, cose in are, com | in lettore. | [ornament] | In Verona. M DC L XXII. | [rule] | [in red:] Per Andrea Rosi. Con Licenza de'Superiori.

2 parts in one volume, paged continuously. 2°: [\*]<sup>6</sup> A-Z<sup>4</sup> Aa-Pp<sup>4</sup> Qq<sup>2</sup> Rr-Zz<sup>4</sup> AAa-KKk<sup>4</sup> LLL-SSs<sup>2</sup> VVv-YYy<sup>2</sup>; 250l.; [12], 488 p. Title pages in red and black. Added engraved title page. Nearly 100 large engravings in text, and numerous woodcuts. The second part has its own title page.

VERY SCARCE. This expanded edition is divided into

three books. The first describes the antiquities contained in the collection, including coins, medals, sculptures, mosaics, lamps, etc. The second discusses at length the stones, minerals, earths and other items that came from the earth. Included are descriptions of carnelians, topaz, sapphire, ruby, jasper, amber, agate, amethyst, beryl, onyx, opal, cat's eye, nephrite, turquoise, malachite, Bloodstone, Beozar, magnets, mica, rock crystal, obsidian, asbestos, gold, silver, copper, tin, lead, quicksilver, iron, minum, antimony, various earths from Elba, Silesia, Strigonia, and Japan, sulfur, nitre, alum, salt, all thing petrified, etc. The third section provides descriptions of corals, animals, and fruits. A final part describes various Gods, coats-of-arms, dwarfs, chameleons, mathematical instruments, Turkish knives and swords, a skeleton, old coins of Rome, paintings, drawings, portraits of princes and famous men, soldiers and writers. At the end comes an index of items described in the text.

REFERENCES: Balsiger, *Kunst und Wunderkammern*, 1970: 331-42. • BL: [432.1.22.]. • Dance, *Shell Collecting*, 1966: 39. • *Freilich Sale Catalog*: no. 409. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 279. • LKG: XVII 120\*. • Murray, *Museums*, 1904: 3, 34. • NUC: 396, 674 [NM 0806827].

**MOSCH, Karl Friedrich.** (BORN: Hainichen, Germany, 6 January 1784; DIED: Herischdorf, Germany, 2 December 1859) *German geographer*.

REFERENCES: DBA: I 859, 363. • Hamberger & Meusel, *Gelehrte Deutschland*, 1796-1834. • WBI.

**3441. — German, 1829.**

Zur Geschichte des Bergbaues in Deutschland, von Carl Friedrich Mosch. Liegnitz, Buchdruckerei bei E. D'Oench, 1829.

2 vols. A history of mining in Germany. RARE.

REFERENCES: BL: [8233.a.35.]. • Hoover Collection: no. ??.

**MOSES, Alfred Joseph.** (BORN: Brooklyn, New York, U.S.A., 25 July 1859; DIED: New York City, New York, U.S.A., 27 February 1920) *American mineralogist*.

Moses passed his entire career as student, assistant and professor at the School of Mines of Columbia University, where in 1897, he succeeded T. EGLESTON as professor of mineralogy. He edited for many years the *School of Mines Quarterly*, to which he contributed many papers.

REFERENCES: ABA: I 1154, 215-221; II 430, 41. • *American Mineralogist*: 5 (1920), no. 6, 109-12 [by L.M. Luquer]. • Barr, *Index to Biographical Fragments*, 1973: 184. • Elliott, *Biographical Index*, 1990: 164. • *Herringshaw's National Library of American Biography*. • *Mineralogical Magazine*: 19 (1921), no. 95, 252-3 [by L.J. Spencer]. • *Mining and Metallurgy*: June 1920, 4p., portait [by G.F. Kunz]. • Poggendorff: 4, 1034 & 5, 879. • Sarjeant, *Geologists*, 1980: 3, 1757. • WBI.

**3442. — English, 1895** [First edition].

Elements of mineralogy, crystallography and blowpipe analysis, from a practical standpoint including a description of all common or useful minerals, the tests necessary for their identification, the recognition and measurement of their crystals, and a concise statement of their uses in the arts. New York, D. Van Nostrand Co., 1895.

8°: vii, 342 p., 336 illus. PAGE SIZE: 232 x 150 mm.



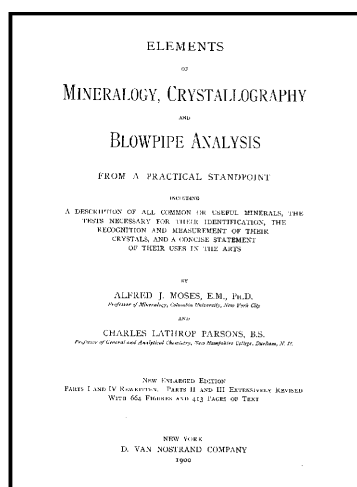
## MOSES

VERY SCARCE. First in a series of popular books designed to present the facts that the student and professional might require to recognize and determine all the important minerals. As stated on the title page this fine reference is written from a practical standpoint and includes descriptions of all the common and useful minerals, together with tests necessary to their identification, recognition and measurement of their crystals and a short statement on their uses in the arts and industry. Like many important textbooks the contents were periodically put through major revisions. The *Elements of Mineralogy* had major revisions of the text in 1900, 1904 and 1909.

Although the preface to the 1909 edition indicates that the first edition of this book appeared in 1865 (when Moses was 6 years old), this is a mistake. The 1895 appearance is the first edition.

Reissued: New York, 1897.

REFERENCES: *American Journal of Science*: 3rd series, 49 (1895), p. 480. • NUC.



ELEMENTS, 1900

**3443. 2nd edition, 1900:** Elements | Of | Mineralogy, Crystallography | And | Blowpipe Analysis | From A Practical Standpoint | Including | A Description Of All Common Or Useful Minerals, The | Tests Necessary For Their Identification, The | Recognition And Measurement Of Their | Crystals, And A Concise Statement | Of Their Uses In The Arts | By | Alfred J. Moses, E.M., Ph.D. | Professor of Mineralogy, Columbia University, New York City | And | Charles Lathrop Parsons, B.S. | Professor of General and Analytical Chemistry, New Hampshire College, Durham, N.H. | New Enlarged Edition | Parts I and IV Rewritten. Parts II and III Extensively Revised | With 664 Figures and 413 Pages of Text | New York | D. Van Nostrand Company | 1900.

8<sup>o</sup>: [i]-vii, [1]-414, [6] p., 664 illus., tables. PAGE SIZE: 232 x 148 mm.

CONTENTS: [i-ii], Title page, verso "Entered according to the Act of Congress in the year 1900, ..."; [iii], "Preface."; [iv], Blank.; [v]-vii, "Table Of Contents."; [1 pg], Blank.; [1]-398, Text.; [3 folding tables]; [399], "International Atomic Weights."; [400], Blank.; [401]-414, "General Index."; [6 pgs], Advertisements.

SCARCE. Co-authored with Charles Lathrop Parsons [see note below], this is an enlarged and improved book.

"In this edition of our text-book we have adhered to the design of the edition of 1895, to present the facts leading to a useful knowledge of mineralogy in such a manner that the student in the technical school and the professional man in the field may readily learn to recognize or, when necessary, to determine all important minerals."—*Preface*.

**Major sections:** Part I. Crystallography (pp. 1-81). Part II. Blowpipe Analysis (pp. 83-135). Part III. Descriptive Mineralogy (pp. 137-395). Part IV. Determinative Mineralogy (pp. 397-399).

**Charles Lathrop Parsons.** (BORN: New Marlboro, Mass., U.S.A., 23 March 1867; DIED: Pocasset, Mass., U.S.A., 13 February 1954) *American chemist*. Parsons was professor of chemistry at New Hampshire College, in Durham, New Hampshire. This is now the University of New Hampshire. The university's Parsons Hall chemistry building is named for this renowned chemist. Parsons was business manager of the American Chemical Society for more than 30 years. Today, the Charles Lathrop Parsons Award is awarded to recognize public service by a member of the American Chemical Society.

REFERENCES: *American Journal of Science*: 4th series, 10 (1900), p. 403. • NUC. (Parsons) ABA: I 1236, 450-454; II 462, 140-142. • American Men of Science, 1st edition (1906). • *Herringshaw's National Library of American Biography*. • Poggendorff: 5, 943, 6, 1953 & 7b, 3870. • WBI. • *Who Was Who in America*: 3, ??.

**3444. 3rd edition, 1904:** Elements | of | Mineralogy, Crystallography | and | Blowpipe Analysis | From A Practical Standpoint Including | A Description of all common or useful minerals, the | tests necessary for their identification, the recognition and measurement of their | crystals, and a concise statement | of their uses in the arts | By | Alfred J. Moses, E.M., Ph.D. | Professor of Mineralogy, Columbia University, New York City | and | Charles Lathrop Parsons, B.S. | Professor of General and Analytical Chemistry, New Hampshire College, Durham, N.H. | Third Enlarged Edition | Part I Rewritten. Parts 2, 3 and 4 Extensively Revised | With 583 Figures and 448 Pages of Text | New York | D. Van Nostrand Company | 1904.

8<sup>o</sup>: 448 p., 583 illus. Enlarged and revised edition. PAGE SIZE: 232 x 150 mm. SCARCE.

REFERENCES: NUC. • *USGS Library Catalog*.

**3445. 4th edition, 1909:** Elements | Of | Mineralogy, Crystallography | And | Blowpipe Analysis | From A Practical Standpoint | Including | A Description Of All Common Or Useful Minerals, The | Tests Necessary For Their Identification, The | Recognition And Measurement Of Their | Crystals, And A Concise Statement | Of Their Uses In The Arts | By | Alfred J. Moses, E.M., Ph.D. | Professor of Mineralogy, Columbia University, New York City | And | Charles Lathrop Parsons, B.S. | Professor of General and Analytical Chemistry, New Hampshire College, Durham, N.H. | Fourth Edition | With 583 Figures and 448 Pages of Text | New York | D. Van Nostrand Company | 1909.

8<sup>o</sup>: [i]-vii, [1], [1]-444 p., 583 illus. PAGE SIZE: 232 x 150 mm.

CONTENTS: [i-ii], Title page, verso "Entered according to the Act of Congress..."; [iii], "Preface."; [iv], Blank.; [v]-vii, "Table Of Contents."; [1 pg], Blank.; [1]-426, Text.; [3 folding tables]; [427], "International Atomic Weights."; [428]-444, "General Index."

SCARCE. After a quarter of a century of use, the book is structured to present its subjects in what is considered the best way for students. 1. An elementary course in crystallography. 2. A practical and thorough course in qualitative blowpipe analysis. 3. Characters of minerals. 4. A short discussion of the occurrence and origin of minerals. 5. Conveniently arranged concise descriptions of all common or economically important minerals. 6. Short tables used for the determination of the described species. 7. Recent statistics as to production and uses.

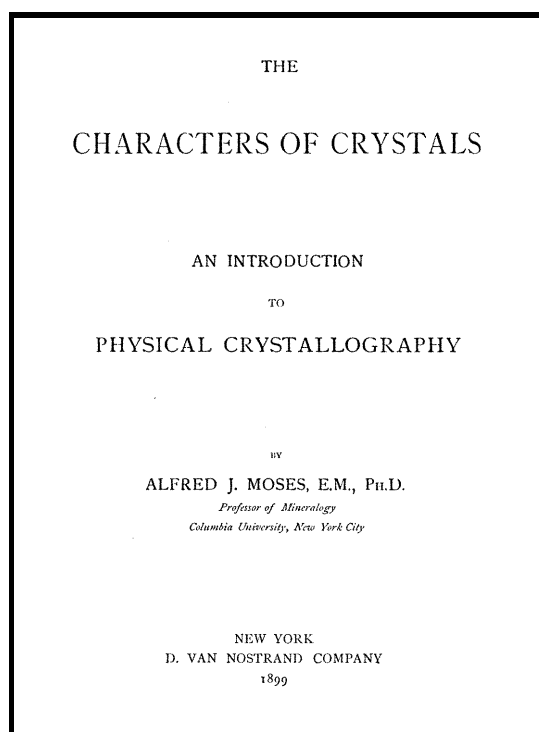
**Major sections:** Part I. Crystallography (pp. 1-74). Part II. Blowpipe Analysis (pp. 75-127). Part III. Descriptive Mineralogy (pp. 128-424). Part IV. Determinative Mineralogy (pp. 425-427).

REFERENCES: NUC. • *USGS Library Catalog*.

**3446. 5th edition, 1916:** Elements Of Mineralogy, Crystallography And Blowpipe Analysis From A Practical Standpoint Including A Description Of All Common Or Useful Minerals, Their Formation And Occurrence, The Tests Necessary For Their Identification, The Recognition And Measurement Of Their Crystals, And Their Economic Importance And Uses In The Arts By Alfred J. Moses, E.M., Ph.D. Professor of Mineralogy, Columbia University, New York City And Charles Lathrop Parsons, D.Sc., D.Chem. Chief Chemist United States Bureau of Mines Fifth Edition Enlarged And In Large Part Rewritten New York D. Van Nostrand Company 25 Park Place 1916.

8°: 631 p., 575 illus., tables. PAGE SIZE: 232 x 150 mm. SCARCE.

REFERENCES: Dana's 7th (Bibliography): 77. • NUC. • *USGS Library Catalog*.



CHARACTERS OF CRYSTALS, 1899

**3447. — English, 1899.**

The Characters of Crystals An Introduction to Physical Crystallography by Alfred J. Moses, E.M., Ph.D. Professor of Mineralogy Columbia University, New York City New York D. Van Nostrand Company 1899.

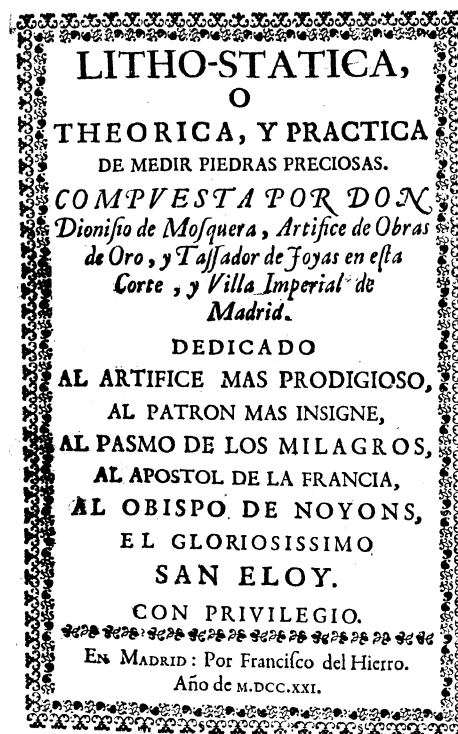
8°: [i]-viii, [1]-211, [1] Blank p., 321 text illus., index. Errata slip inserted between pages iv & v. PAGE SIZE: 234 x 150 mm.

CONTENTS: [i-ii], Title page, verso "Copyright 1899 By Alfred J. Moses"; [iii], "Preface."—dated March, 1899.; [iv], Blank.; [Between iv & v], "Errata."; [v]-viii, "Contents."; [1]-84, "Part I. Geometrical Characters."; [85]-162, "Part II. The Optical Characters."; [163]-198, "The Thermal, Magnetic and Electrical Characters, and the Characters Dependent upon Elasticity and Cohesion."; [199]-206, "Appendix. Suggested Outline of a Course in Physical Crystallography."; [207]-211, "Index."; [1 pg], Blank.

SCARCE. In this work on physical crystallography, Moses writes: "I have attempted, in this book, to describe, simply and concisely, the methods and apparatus used in studying the physical characters of crystals, and to record and explain the observed phenomena without complex mathematical discussions. In the last chapter the graduate course in Physical Crystallography given in Columbia University has been outlined."—*Preface*.

Under geometrical characters the volume covers geometric properties of crystals, spherical projection, the thirty-two classes of crystals, measurement of crystal angles, and crystal projection or drawing. In part II. optically isotropic, uniaxial, and biaxial crystals are discussed, as well as the determination of the optical characters of biaxial crystals. The final part describes the thermal, magnetic and electrical properties of crystals and concludes with a section on elastic and permanent deformation of crystals which includes the hardness of minerals.

REFERENCES: *American Journal of Science*: 4th Series, 7 (1899), 84. • BL. • NUC.



LITHO-STATICA, 1721

MULLER

**MOSQUERA, Dionisio de.**

**3448. — Latin, 1721.**

[Contained within an ornate box:] Litho-Statica, | O | Theorica, Y Practica | De Medir Piedras Preciosas. | Compvesta Por Don | Dionisio de Mosquera, Artifice de Obras | de Oro, y Tassador de Joyas en esta | Corte, y Villa Imperial de Madrid. | Dedicado | Al Artifice Mas Prodigioso, | Al Patron Mas Insigne, | Al Pasma De Los Milagro, | Al Apostol De La Francia, | Al Obispo De Noyons, | El Gloriosissimo | San Eloy. | Con Privilegio. | [ornate rule] | En Madrid: Por Francisco del Hierro. Año de M.DCC.XXI.

8°: ¶<sup>4</sup> ¶¶<sup>4</sup> ¶¶¶<sup>4</sup> A-Bb<sup>4</sup> Cc<sup>3</sup>; 115ℓ.; [24], 1-202, [4] p., one folding plate (page 64). PAGE SIZE: 200 x 148 mm.

CONTENTS: [2 pgs], Title page, verso blank.; [6 pgs], "Al Primer Apostol De Flandes, | Y Obispo De Noyons, | El Glorioso San Eloy, | ..."—signed Dionisio de Mosquera.; [3 pgs], "Censura Del P. Pedro De Ulloa | ..."—dated 22 June 1722.; [1 pg], "Licencia De Ordinaro."; [2 pgs], Aprobacion De D. Juan Muñoz, | ..."; [3 pgs], "El Rey."; [1 pg], "Fee De Erratas."; [6 pgs], "Prologo."; 1-202, Text.; [2 pgs], "Tabula | De Los Capítulos, Que Se | Contienen en este Tomo."

RARE. An early Spanish gemological work dealing with the theoretical and practical aspects of weighing precious stones such as diamonds, rubies, emeralds, etc. Sinkankas (1993) contains a full description of the contents.

REFERENCES: BL: [1508/1489]. • LKG: XVI 224. • Maffei & Rua Figuera, *Bibliografía Mineral*, 1871-2: 1, 493, no. 1702. • Roller & Goodman, *Catalogue*, 1976: 2, 214. • Sinkankas, *Gemology Bibliography*, 1993: no. 4618.

**MOXON, Charles.** (BORN: ; DIED: ) *English mineralogist & author.*

REFERENCES: Allibone, *Dictionary of English Literature*, 1859-71. • BBA: I 796, 4. • WBI.

**3449. — English, 1843.**

An | Introduction To Mineralogy, | Being The | Natural System Of Classification | Of | Mineral And Metallic Bodies. | By Charles Moxon, | Honorary Curator of the Scientific Society of London ; Editor of the "Geologist," | and Author of "a Series of Illustrations of the Characteristic Fossils of British | Strata." | [wavy rule] | London: | Hippolyte Bailliere, | 219, Regent Street. | Paris: J.B. Bailliere. | 1843. | [wavy rule] | Price Three Shillings.

8°.

VERY SCARCE. New edition of a work first published in 1838?

**MUCHA, J.J.M. Wolfgang.** *German mine engineer.*

REFERENCES: DBA: I 864, 3434. • Hamberger & Meusel, *Gelehrte Teutschland*, 1796-1834. • WBI.

**3450. — German, 1780.**

Anleitung zur mineralogischen Kenntniss des Quicksilberbergwerks zu Hidria im Herzogthum Krain. Wien, Bey Rudolph Gräffer, 1780.

8°: 76 p. A mineralogical study of the mercury deposits and mining works of Idria, Slovenia. These deposits were discovered in 1490 and became the second largest mercury mine in the world that was worked for 500 years, closing finally in 1990. RARE.

REFERENCES: BL: [972.g.19.]. • LKG: XIV 258.

**MÜLLER, Frantz Henrik.** (BORN: 1732; DIED: 1820) *Danish chemist.*

REFERENCES: *Dansk Biografisk Haandleksikon*. • *Dansk Biografisk Lexikon*, 3rd edition. • Nyerup & Kraft, *Almindeligt Litteraturrexikon*, 1818-20. • Poggendorff: 2, cols. 226-7. • SBA: Scandinavian Biographical Archive: A-222, 59-68. • WBI. • Worm, *Forsøg til et Lexicon over Danske*, 1771-84.

**3451. — German, 1804.**

F.H. Mullers ... Versuche mit einfachen und zusammengesetzten Erd- und Steinarten, mit Rücksicht auf ihre Tauglichkeit zur Verglasung und deren Anwendbarkeit bey dem Schmelzen der Kupfer- und Eisenerze, nebst Versuchen und Bemerkungen über drey Obsidian-arten von Island und andern Gebirgsarten, gesammelt in den beyfolgenden Tabellen. Aus dem Dänischen übersetzt von J.A. Markussen. Kopenhagen, 1804.

8°: 48 p., 9 plates.

RARE. Translation by Johannes Ambrosius Markussen. This is a study of attempts to find simple and complex mineral compounds that can be used as glazes in ceramics, together with remarks on various copper and iron ores. There is also a description of three different kinds of obsidian collected in Iceland, as well as other minerals and geological features of that land.

**Markussen.** *German preacher & botanist.*

REFERENCES: BL: [T.961.(10.)]. • LKG: XVI 364. (Markussen) DBA: I 805, 457-460. • Hamberger & Meusel, *Gelehrte Teutschland*, 1796-1834. • WBI.

**MÜLLER, Johann Heinrich Jacob.** (BORN: 30 April 1809; DIED: ?) *German physicist.*

REFERENCES: DBA: I 870, 296-304. • Poggendorff: 2, cols. 228-9. • WBI.

**3452. — German, 1845.**

Grundzüge der Krystallographie. Von Dr J. Müller ... Mit 123 in den Text eingedruckten Holzschnitten. Braunschweig, Druck und Verlag von Friedrich Vieweg und Sohn, 1845.

8° (Paperwraps): 54, [2] book catalog p., 123 illustrations. The back wrapper contains advertisements for new books.

VERY SCARCE. Basic starter book in crystallography. Explains and compares the crystal systems and nomenclature of Weiss, Mohs, and Naumann.

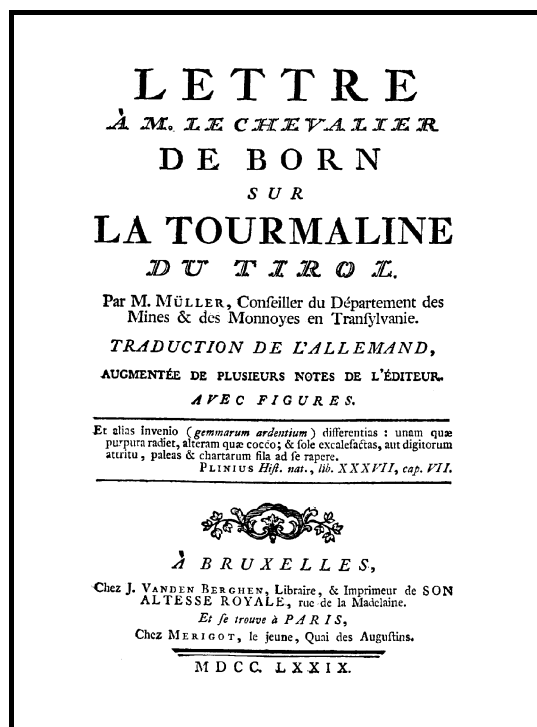
REFERENCES: BL.

**3453. French transl., 1847:** *Éléments de Cristallographie*. Par M.J. Muller. Traduits de l'Allemand et Annotes par Jerome Nickles. Paris, La Librairie Scientifique-Industrielle, 1847.

8°: 133 p., 119 illus. PAGE SIZE: 192 x 115 mm.

RARE. A textbook giving the basic elements of the crystallographical science.

REFERENCES: BL. • NUC.



LETTRÉ À M. LE CHEVALIER DE BORN, 1779

**MÜLLER VON REICHENSTEIN, Franz Joseph, Freiherr.** (BORN: 1740; DIED: 1825) *Austrian bureaucrat.*

REFERENCES: DBA: I 867, 50-62; 1011, 435; II 926, 240-241. • *Neuer Nekrolog der Deutschen*. • *Österreich Biographisches Lexikon*. • Poggendorff: 2, col. 231. • WBI. • Wurzbach, *Biographisches Lexikon Österreich*, 1856-91.

**3454. — German, 1785.**

*Mineralgeschichte von den Goldbergwerken in Vorospatak. Wien, 1785.*

With colored plates. VERY SCARCE.

REFERENCES: LKG: XIV 855.

**3455. — German, 1778 [First edition].**

*Nachricht von den in Tyrol entdeckten Turmalines ... Wein, 1778.*

8°: VERY SCARCE.

REFERENCES: LKG: XVI 407.

**3456. French transl., 1779:** *Lettre à M. Le Chevalier de Born sur la Tourmaline du Tirol*. Par M. Müller, Conseiller du Département des Mines & des Monnoyes en Transylvanie. | Traduction De L'Allemand, | Augmentée De Plusieurs Notes De L'Éditeur. | Avec Figures. |

[rule] | [...3 lines of quotation, signed Plinius Hist. nat., lib. XXXVII, Cap. VII. ...] | [rule] | [ornament] | À Bruxelles, | Chez J. Vanden Berghen, Libraire, & Imprimeur de Son Altesse Royale, rue de Madelaine. | Et se trouve à Paris, | Chez Merigot, le jeune, Quai des Augustins. | [double rule] | MDCC. LXXIX.

8°:  $\pi^4$  A-D<sup>4</sup> E<sup>3</sup>; 23 $\ell$ .; [8], [1]-35, [3] p., one engraved plate (showing various tourmaline specimens). . PAGE SIZE: 228 x 170 mm.

CONTENTS: [2 pgs], Half title page, "Lettre | Sur | La Tourmaline | Du Triol.," verso blank.; [2 pgs], Title page, verso blank.; [2 pgs], "Lettre De L'Éditeur" — signed De Launay, 23 April 1779.; [2 pages], "Préface De L'Éditeur.;" [1]-35, Text, signed Müller, 11 May 1778.; [2 pgs], "Explications Des Figures.;" [1 pg], "Avis Au Relieur.;" [At end], One plate.

VERY SCARCE. The British Library lists the author as: Joseph Mueller of Schwaz?

REFERENCES: BL: [B.354.(9.)]. • Ferchl: 373. • LKG: XVI 408a.

**MÜNTER, Friedrich.** (BORN: 1761; DIED: 1830) *Danish theologian.*

Münter was professor of theology at the University of Copenhagen.

REFERENCES: ADB. • *Dansk Biografisk Haandleksikon*. • *Dansk Biografisk Lexikon*. • DBA: I 875, 442-464. • Hamberger & Meusel, *Gelehrte Teutschland*, 1796-1834. • *Neuer Nekrolog der Deutschen*. • Nyerup & Kraft, *Almindeligt Litteraturrexikon*, 1818-20. • SBA: Scandinavian Biographical Archive: A-223, 198-259. • WBI. • Worm, *Forsøg til et Lexicon over Danske*, 1771-84.

**3457. — German, 1805.**

*Ueber die vom Himmel gefallenene Steine der Alten, Bathylien genannt, in Vergleichung mit den in neueren Zeiten herabgefallenen Steinen. Von Friedrich Münter ... Eine Verdeutschung aus dem Dänischen von Johannes Ambrosius Markussen. Kopenhagen und Leipzig, bey Johann Heinrich Schuboth, 1805.*

8°: 33 p.

RARE. Translated from the Danish by Johann Ambrosius Markussen. On the stones reported to have fallend from heaven, otherwise known as meteorites, comparing the reports of the older writers, as well as the author's contemporaries.

**Markussen.** *German preacher & botanist.*

REFERENCES: Brown, *Bibliography of Meteorites*, 1953. • Burke, *Cosmic Debris*, 1986. • LKG: XVI 353. (**Markussen**) DBA: I 805, 457-460. • Hamberger & Meusel, *Gelehrte Teutschland*, 1796-1834. • WBI.

**MURALT (Muralto), Johannes von.** (BORN: 1645; DIED: 1733) *German physician.*

REFERENCES: DBA: I 877, 307-309. • Jöcher, *Gelehrten-Lexikon*, 1750-51. • Jöcher, *Gelehrten-Lexikon, Supplement*. • Poggendorff: 2, col. 240. • WBI.

**3458. — Latin, 1711 [Dissertation].**

*Disputatio Extraordinaria de Lapidibus, quam ... Præsides Johann de Muralto ... defendet Andreas Pestaluzius Philosophiae Candidatus ... Tiguri, Bodmer, 1711.*

4°: 23 p.

VERY RARE. Dissertation — Tiguri (Andreas Pestaluzius, respondent).

## MUSEUM OF PRACTICAL GEOLOGY

REFERENCES: BL. • Gatterer, *Mineralogischen Literatur*, 1798-9: 2, 8. • LKG: XVI 94. • NUC: [no copy listed].

**MURDOCH, Joseph.** (BORN: Washington, D.C., U.S.A., 19 February 1890; DIED: Los Angeles, California, U.S.A., 31 December 1973) *American mineralogist*.

Murdoch was exposed to natural history at an early age because his father worked for the Smithsonian Institute. In 1907 he entered Harvard University, from which he received geological science degrees in 1911, 1912 and finally 1915 (Ph.D.). He entered into a successful, non-geological, business career, but returned to the science when he joined the faculty of the emerging department of geology at the University of California, Los Angeles. He retired in 1959, but continued to visit the mineral laboratory until the day of his death. He was president of the American Mineralogical Society in 1960.

REFERENCES: ABA: II 433, 386. • *American Mineralogist*: 60 (1975), nos. 5-6, 511-13, portrait [by R.W. Webb]. • Sarjeant, *Geologists*, 1980: 3, 1770. • WBI. • *World Who's Who in Science*: 1228.

### 3459. — English, 1916.

Microscopical Determination | Of The | Opaque Minerals | An Aid To The Study Of Ores | By | Joseph Murdoch, Ph.D. | Geologist, Secondary Enrichment Investigation | First Edition | First Thousand | New York | John Wiley & Sons, Inc. | London: Chapman & Hall, Limited | 1916.

8°: [i]-vii, [1], [1]-165, [1] p., colored frontispiece, illus.

CONTENTS: [i-ii], Title page, verso "Copyright, 1916, | By | John Wiley & Sons, Inc."; iii-vi, "Preface."; vii, "Contents."; [1 pg], Blank.; [1]-153, Text.; 154-162, "Condensed Determinative Table."; 163-165, "Index Of Minerals."; [1 pg], Blank.

VERY SCARCE. "The determinative tables of this book, in practically their present form, constitute the principal portion of a thesis presented as part of the requirement for the degree of doctor of philosophy at Harvard university." Bibliography: p. 16-18.

REFERENCES: Dana's 7th (Bibliography): 77. • NUC. • *USGS Library Catalog*.

## MUSEUM FRANCISCO-CAROLINUM.

### 3460. — German, 1897 [Bibliography].

Bibliotheks-Katalog | des | Museum Francisco-Carolinum | in | Linz a. D. | [ornate rule] | Verfasst von | Gustav Bancalari | k.u.k. Oberst d. R. | Herausgegeben vom Verwaltungsrathe des Museum. | [ornate rule] | Linz 1897. | Commission Hofbuchhandlung Vinzenz Fink. | Druck von J. Wimmer.

8°: [i]-ix, [1]-668 p.

CONTENTS: [i-ii], Title page, verso blank.; [iii], Dedication to Adolf Dürrenberger.; [iv], Blank.; [v]-ix, "Vorwort."; [1]-668, Text.

SCARCE. Compiled by Gustav Bancalari [1841-1900], this is the second catalog of the library (the first was issued in 1845), and it contains 14,930 titles (22,372 vols.), including about 1500 titles on Austria-Hungary. The catalog is classified into 16 main

divisions, including one for geology and mineralogy. It is especially rich in those books published with in the Austro-Hungarian empire.

**Supplement, 1900:** *Bibliotheks-katalog des Museum Francisco-Carolinum in Linz a.D. II. nachtrag. Bücherzugang 1896-1900, 15. april.* Verfasst von Gustav Bancalari ... Herausgegeben vom Verwaltungsrathe des Museums. Linz, Commission hofbuchhandlung V. Fink, 1900. [4], [699]-767 p. Lists an additional 1981 titles.

REFERENCES: BL. • Bridson, *History of Natural History*, 1994: Bc275.

## MUSEUM OF PRACTICAL GEOLOGY.

### 3461. — English, 1878 [Bibliography].

A Catalogue of the Library of the Museum of Practical Geology and Geological Survey. Compiled by Henry White and Thomas W. Newton ... London, H.M. Stationery Office, 1878.

8°: [4], 602 p.

RARE. Compiled by Henry White [1812-1880] and Thomas W. Newton. This catalog lists c28,000 entries alphabetically by author, with a few subject groups included in the same sequence, i.e., Catalogues, Exhibitions, Journals, Maps, Museums, Reports, Statistics, etc.

**Library of the Museum of Practical Geology.** In 1843 the geologist Sir Henry de la Beche gave the whole of his valuable collection of scientific books to the British nation. These formed the nucleus of a library used by the Geological Survey of Great Britain and the Museum of Practical Geology in Jermyn Street. The library continued to grow by donation, purchase and exchange when the older titles were transferred to the new Science Library.

REFERENCES: BL. • BMC: 3, 1386. • Bridson, *History of Natural History*, 1994: Bc278. • Margerie, *Bibliographies Géologiques*, 1896: no. 1717. • NUC. • *USGS Library Catalog*.

**MYLIUS, Gottlieb Friedrich.** (BORN: Halle, Germany, 7 April 1675; DIED: 6 August 1726) *German bureaucrat*.

Mylius was a mineralogist and Secretary to the Elector of Saxony.

REFERENCES: ADB. • DBA: I 880, 263-264; II 932, 335. • Jöcher, *Gelehrten-Lexikon*, 1750-51. • Lambrecht & Quenstedt, *Catalogus*, 1938: 308. • Poggendorff: 2, col. 249. • WBI. • Wilson, *History of Mineral Collecting*, 1994: 185.



MEMORABILUM SAXONIE SUBTERRANEÆ, 1709

**3462. — German, 1709-18** [First edition].

[In black:] G.F.M. | Memorabilium | [in red:] Saxoniae Subterraeae | [in black:] Pars Prima. | i.e. | Des Unterirdischen Sachsens | [in red:] Seltsamer Wunder | [in black:] Der | [in red:] Natur. | [in black:] Erster Theil. | Worinnen | die | Auf denen Steinen an Kräutern / Bäumen / Blumen / | Fischen/ Thieren/ und andern dergleichen/ besondere Abbildungen/ | so wohl Unsers Sachsen=Landes / als deren so es mit diesen | gemein haben / gezeigt werden / mit vielen | Kupffern gezieret. | Mit Königl. und Churfl. Sächß. Privilegio. | [rule] | Leipzig/ | In Verlegung des Autoris, zu finden bey | Friedrich Groschuffen. 1709.

2 vols. [VOL 1: 1709] 4°: (4 A-M<sup>4</sup> N<sup>2</sup>; 53ℓ.; [6], [1]-80, [20] p., engraved frontispiece with inset portrait of the author, 13 engraved plates, text illus. Title page in red and black. [VOL 2: 1718] 4°: π<sup>1</sup> A-K<sup>4</sup> L<sup>5</sup>; 46ℓ.; [2], [1]-89, [1] p., 12 engraved plates. PAGE SIZE: 196 x 160 mm.

CONTENTS: [Vol 1] [Frontispiece]; [2 pgs], Title page, verso blank.; [4 pgs], "Adjuvante Numine! | Lector Benevole!"; [1]-80, Text.; [19 pgs], "Register. | Derer vornehmsten Sachen."; [1 pg], Blank.

[Vol 2] [2 pgs], Title page, verso blank.; [1]-89, Text.; [1 pg], Blank.

PLATES: These well illustrated volumes contain the following folded and unnumbered plates with some signed by J.G. Krüger.

[Vol 1] Frontispiece, showing three gods with Mercury handing a book to one of the other dieties, above it all is inset a portrait of Mylius. Page 4, fossil fish. Page 6, fossil fish. Page 18, landscape. Page 18, dendrites. Page 18, fossil ferns. Page 26, fossil shells. Page 28, fossil fern. Page 34, rocks and concretions. Page 46, fossil fish. Page 50, dendrites. Page 52, dendrites. Page 56, fossil shells. Page 74, fossil shells.

[Vol 2] Page 8, calcite crystals. Page 10, various mineral specimens. Page 32, fossils. Page 34, fossils (labeled "Tab V."). Page 36, fossils (labeled "Tab IVb."). Page 46, fossils. Page 52, naturalis shell. Page 56, deer antlers. Page 62, fossils (labeled "Tab IX.") Page 80, fossil bones. Page 80, fossil bones. Page 84, fossil fish. Page 86, fossil fish. Page 88, various fossils.

RARE. Published anonymously but attributed to Mylius by contemporaries, this work contains keen observations of odd and unusual geological phenomena. It creates this notable, illustrated work about the natural subterranean wonders of Saxony. The author sought to include descriptions of all the miraculous creations dug from the earth; therefore, the plates show not only minerals and fossils, including shells, snails and "steinkohlenpflanzen" (fossilized impressions of plants in coal), but also dendrites and iron-stained slates, including several idealized patterns of men and animals.

REFERENCES: Fischer, *Mineralogie in Sachsen*, 1939: 4, 79-82, 188, 191, 202, 224, 228 & 275. • LKG: XIV 185. • Wagner, *Mineralogisch Durchforschung Sachsens*, 1902: p. 89.

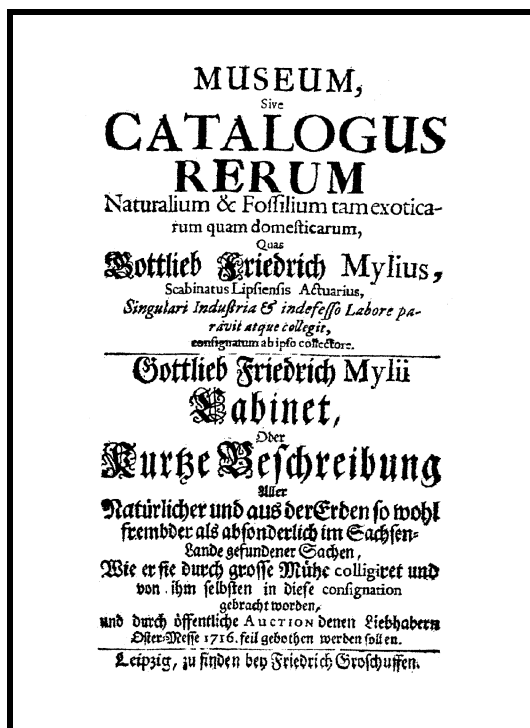
**3463. 2nd edition, 1720:** G.F.M. | Memorabilium | Saxoniae Subterraeae | Pars Prima. | i.e. | Des Unterirdischen Sachsens | Seltsamer Wunder | Der | Natur. | Erster Theil. | Worinnen | die | Auf denen Steinen an Kräutern / Bäumen / Blumen / | Fischen/ Thieren/ und andern

dergleichen/ besondere Abbildungen/ | so wohl Unsers Sachsen=Landes / als deren so es mit diesen | gemein haben / gezeigt werden / mit vielen | Kupffern gezieret. | Mit Königl. und Churfl. Sächß. Privilegio. | [rule] | Leipzig/ | In Verlegung des Autoris, zu finden bey | Friedrich Groschuffen. 1720.

2 vols. [VOL 1] 4°: [6], 80 p., 14 plates. [VOL 2] 4°: [19], 89 p., 14 plates.

VERY SCARCE. Reprint of the first two parts of the German 1709-18 edition into a single volume.

REFERENCES: Fischer, *Mineralogie in Sachsen*, 1939: pp. 4, 79-82, 188, 191, 202, 224, 228, 275. • LKG: XIV 185. • Wagner, *Mineralogisch Durchforschung Sachsens*, 1902: p. 89.



MUSEUM, 1716

**3464. — Latin & German, 1716** [Sale catalog].

Museum, | Sive | Catalogus | Rerum | Naturalium & Fossilium tam exoticarum quam domesticarum, | Quas | Gottlieb Friedrich Mylius, | Scabinatus Lipsiensis Actuarius, | Singulari Industria & indefesso Labore paravit atque collegit, | configuratum ab ipso collectore. | [rule] | Gottlieb Friedrich Mylii | Cabinet, | Ober | Kurtze Beschreibung | Aller | Natürlicher und aus der Erden so wohl | frembder als absonderlich im Sachsen= | Lande gefundener Sachen, | Wie er sie durch grosse Mühe colligiret und | von ihm selbst in diese configuration | gebracht worden, | und durch öffentliche Auction denen Liebhabern | Oster=Messe 1716. feil gebothen werden sollen. | [rule] | Leipzig, zu finden bey Friedrich Groschuffen.

## NAPIONE

8°: A-H<sup>8</sup> I<sup>3</sup>; 67ℓ.; no page number.

RARE. Auction sale catalog of Mylius' collection of mineralogical objects found in the region of Saxony. He had originally built this collection in connection with his work, *Memorabilia Saxoniae Subterraneae* (1st ed., Leipzig, 1709-18), and sold it when he no longer had need of them. The sale catalog is divided into four parts: (1) Earths, gems and fossils, 2279 numbers; (2) Marbles; (3) Minerals, 2442 numbers; (4) Various natural curiosities.

REFERENCES: BL: [987.b.38.]. • Fischer, *Mineralogie in Sachsen*, 1939: 4, 79-82, 188, 191, 202, 224, 228 & 275. • Freiesleben, *Sächsische Mineralien-Verzeichnisse*, 1828: no. 4. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 260. • LKG: XV 2. • Murray, *Museums*, 1904: 3, 42. • Schröter's *Journal für die Liebhaber*: 3 (17??), 92. • Wagner, *Mineralogisch Durchforschung Sachsens*, 1902: 89. • Wilson, *History of Mineral Collecting*, 1994.

**NAPIONE, Carlo Antonio Galeani.** (BORN: Turin, Italy, 1757; DIED: Rio de Janeiro, Brazil, 1814) *Italian mineralogist and military & mining expert.*

Napione as a military cadet studied mineralogy in Turin and thus began his lifelong interest in the subject. About 1780, he was sent to the Freiberg Bergakademie to study under WERNER. Upon his return to Italy he entered the military service of his country and was stationed in Sardinia, where he became major inspector of the mines in the Sardinia states before becoming around 1795 director of the metallurgy laboratory at the School of Mineralogy in Turin. When Sardinia was annexed by Napoleon, Napione, who had reached the rank of colonel, emigrated and accepted a place on the military staff in Lisbon. Later, he became a Lieutenant General in the Portuguese colonial army. In 1807 he accompanied the prince regent to Brazil, and was appointed inspector-general of artillery and director of the arsenal, where he established a powder-factory and a cannon-foundry. Napione was elected a member of the Academy of Science at Turin.

REFERENCES: Bulferetti, L., "I viaggi minerari di Carlo Antonio Napione 'innovatore' nel Piemonte e nel Brasile," *Rassegna Economica*, 34 (1970), 7-31. • Burdet, C., "Il cav. Carlo Antonio Napione, Torinese (1756-1814)," *Studi Piemontesi*, 29 (2000), fasc. 2, 567-81. • Poggendorf: 2, col. 253. • Schiffner, *Alter Freiburger Bergstudenten*, 1935-40: 1, 8-9 & 2, 27. • Vaccari, *Mineralogy and Mining in Italy*, 1998.

### 3465. — Italian, 1795 [Biography].

Memoria sul Lincurio del Cav. Carlo Antonio Napione. Roma, presso A. Fulgone, 1795.

4°: [14] p. An anonymously published memorial to the life of Napione. VERY SCARCE.

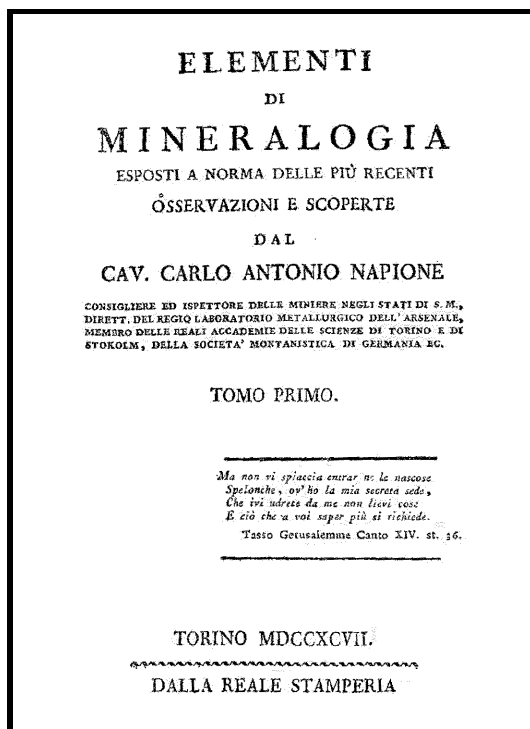
REFERENCES: BL: [981.h.18.]. • LKG: II 15.

### 3466. — Italian, 1797.

Elementi | Di | Mineralogia | Esposti A Norma Delle Più Recenti | Osservazioni E Scoperti | Dal | Cav. Carlo Antonio Napione | [...4 lines of titles and memberships...] | Tomo Primo. | [rule] | [...4 lines of quotation, signed Tasso Gerusalemme Canto...] | [rule] | Torino MDCCXCVII. | [wavy rule] | Dalla Reale Stamperia.

8°: xxii, 420 p., 3 foldedℓ.

RARE. Napione, a former student of Werner, was to spread his former teacher's mineralogical theories to



ELEMENTI DI MINERALOGIA, 1797

Italy through his *Elements of Mineralogy*, which was one of the first textbooks on the subject written in the Italian language. Napione in his introduction explains that his aim in his book is to fill a gap caused by the lack of interest recently shown by Italian scholars for the study of mineralogy. He was referring to the great 16th century Italian works, but it is clear the author was attempting to reinvigorate the science of mineralogy in Italy. The text is written as an elementary treatise for the students of the School of Mineralogy in Turin, and it is based substantially on the theories of Werner. The work had been planned by Napione to be complete in three volumes, but the Napoleonic war caused the *Elementi* to remain the only volume printed in spite of the inclusion of "First Volume" on the title page.

REFERENCES: BL: [726.h.4.]. • Dana's 7th (Bibliography): 77. • LKG: XII 147. • Personal communication: [Renato and Adriana Pagano].

### 3467. — Portuguese, 1817.

Tratado da mineralogia, com referencia expressa aos metaes uteis achados no Brazil. Rio Janeiro, 1817.

8°:

EXTREMELY RARE. Napione explored a great part of Brazil and the neighboring provinces prospecting for metal, and left interesting notes on the mineralogy and metallurgy he encountered. After his death, they were edited by order of the Brazilian government by Colonel Pinto, and published under the title *Tratado da Mineralogia* (Rio Janeiro, 1817). No copy of this title has been located.

## NATURALISTS' DIRECTORY

REFERENCES: Borba, *Bibliographia Brasiliana*, 1983.

### **NARAHARIPAITA.** *Indian pharmacist.*

Probably born in Kashmir, Naraharipaita [fl. 1235-1250] appears to have lived in many different parts of India, collecting together information for his pharmacological work.

REFERENCES: Chattopadhyay, A., *Biographical dictionary of Indian scientists: From ancient to contemporary*, 2000. 1597 p., illus. [ISBN 81-7167-669-3.]: p. 899-900.

### **3468. — German, 1882** [First edition].

Die | Indischen Mineralien, | Ihre Namen | Und Die Ihnen Zugeschriebenen Kräfte. | Narahari's Râganighantu Varga XIII | Sanskrit Und Deutsch | Mit Kritischen Und Erläuternden Anmerkungen | Herausgegeben Von | Dr. Richard Garbe | a.o.Professor An Der Universität Königsberg. | [rule] | Leipzig | Verlag Von S. Hirzel | 1882.

8°: [i]-x, [1]-104 p.

CONTENTS: [i-ii], Title page, verso blank.; [iii], Dedication.; [iv], Blank.; [v]-x, "Vorwort."—signed R. Garbe, may 1882.; [1], Sectional title page.; [2], Blank.; [3]-94, Text.; [95]-104, "Indices."

VERY RARE. Narahari's treatise *Râga-Nighantu* or *Abhidhana Chudamani* is an elaborate pharmacological work, giving the names and preparations for a large number of animal, plant and mineral prescriptions. He provided names of the drugs in Sanskrit, Prakrit, and Apabhramsa, and other regional dialects. Seven considerations for each drug are given: usage, effect, regional names, form, similarity, effect, and place of occurrence. Originally written in Sanskrit, which is also included, here the noted Sanskrit scholar Garbe has translated the mineralogical portion into a good German rendition. Narahari's work is a significant monograph is divided into metals, non-metals, and precious stones. It contains notes on nomenclature, synonyms, occurrences, uses, magical properties, etc. and is a valuable addition to the knowledge of minerals in the India subcontinent in ancient times. This 1882 edition is apparently a very rare book.

**Facsimile reprint, 1974:** Richard Garbe *Die indischen Mineralien, ihre Namen und die ihnen zugeschriebenen Kräfte*. Hildesheim, Verlag Dr.H.AGerstenberg, 1974. [3], x, 104 p.

**Richard von Garbe.** (BORN: 1857; DIED: 1927) *German orientalist & historian*. Garbe was a professor of languages at the University of Königsberg and a noted Sanskrit scholar.

REFERENCES: Biswas, *Gems and Minerals in Ancient India*, 1997. • Biswas, *Minerals and Metals in Ancient India*, 1996. • Sinkankas, *Gemology Bibliography*, 1993: no. 4691. (Garbe) DBA: I 368, 339-340. • WBI.

### **NATURALIST'S LEISURE HOUR.**

### **3469. — English, 1877-95** [Periodical].

The Naturalists' Agency Monthly Bulletin. Philadelphia, A.E. Foote, January, 1877-January, 1878.

[CONTINUED BY:]

Naturalists' Leisure Hour and Monthly Bulletin: Science and Practice. Philadelphia, A.E. Foote, February, 1878-1895.

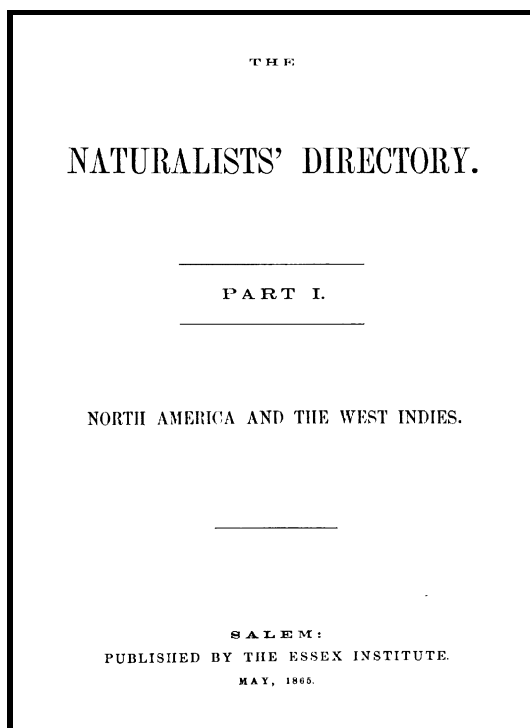
Published, vol. 1, no. 1 (Jan., 1877)-vol. 19, no. 6 (Jan., 1895). Vol. 1 thru vol. 2, no. 1 were published under the title: *The Naturalists' Agency Monthly Bulletin*. Consecutive numbering begins with vol. 6, no. 61 (January, 1882) and continues to no. 161 at the end.

RARE. When Foote began selling minerals and other natural history items, he decided that a monthly advertisement bulletin would be appropriate. This he started in January 1877 as *The Naturalists' Agency Monthly Bulletin*, which continued under that title until January 1878. It was then continued under the title, *Naturalists' Leisure Hour and Monthly Bulletin*, which ceased in 1895 after 161 numbers. Each issue contained between 20-30 pages and was unpaginated. Books for sale are categorized in their specific scientific field: Medicine, Entomology, Scientific History, Archaeology, etc. The first pages of each issue include articles of interest before the listings of sale catalog.

REFERENCES: *Union List of Serials*: 4, 2929.

### **NATURALISTS' DIRECTORY.**

See also: Gistel, Johannes Nepomuk Schenkenberg, F. Carl A.



NATURALISTS' DIRECTORY, 1865

### **3470. — English, 1865** [Putman edition].

The | Naturalists' Directory. | [rule] | Part I. | [rule] | North America And The West Indies. | [rule] | Salem: | Published By The Essex Institute. | May, 1865.



## NATURALISTS' DIRECTORY

2 parts. [Part 1: 1865] 12°: 31, [5] p. [Part 2: 1866] Published in *Proceedings of the Essex Institute*, 5, no. 1, pp. 1-16, no. 2, pp. 17-24, no. 3, pp. 25-32, no. 4, pp. 33-40.

RARE. In America from the earliest times naturalists were scattered over an extensive area that was sparsely settled. To facilitate communication among these naturalists, Frederic W. Putman [1839-1915] initiated a compilation that was first published in two parts as *The Naturalists' Directory* in 1865 and 1866. The role of this directory was to provide the names, addresses and collecting interests of American and international amateurs and professionals. Advertisements listed dealers selling specimens, equipment, microscopes, taxidermists services, labels, etc. It was used as a convent source to look up shipping addresses, or to locate other collectors that might have material to trade. Collecting of information was difficult task making it hard for Putman to continue a well received but profitless venture. Around 1874 Putman passed on the directories preparation to a youthful publisher, Samuel E. Cassino [1856-1937].

Cassino saw an opportunity to add to his young firms growing business and took up the challenge to continue *The Naturalists' Directory*. Although somewhat irregular in its issuing and with some alterations of the title, especially in its early years, it would become an essential publication to American naturalists and scientists as a source for addresses and other esoteric information. Its success is shown by the fact that it is still being published in the year 2000. From an historical perspective, the early directories are in many instances the only record that an individual collected natural history objects, including minerals.

After Cassino's death in 1937 other members of his family took over publication. Then a series of other publishers purchased rights to the *Directory*. Putman had issued the first appearance in 1865-6. From 1877 to 1936, Samuel E. Cassino had published the 1st to 30th of the 'Cassino' editions. Starting in 1938 various publishers brought out new editions (50th ed., 2000). Listed below are the know editions.

**1st ed., 1877:** *The Naturalists' Directory*. Salem, Mass., S.E. Cassino, 1877. 2 parts. 46 p.; 20 p. Part 1 lists 1,431 U.S. and Canadian naturalists. Part 2 lists chemists and physicists.

**2nd ed., 1878:** *The Naturalists' Directory*. Salem, Mass., S.E. Cassino, 1878. 2 parts. 184 p.; 24 p. Part 1 lists 2,524 U.S. and Canadian naturalists. Part 2 lists chemists and physicists.

**3rd ed., 1879:** *The Naturalists' Directory*. Boston, S.E. Cassino, 1879. 278 p. This edition lists 3,311 naturalists from the U.S. and Canada.

**4th ed., 1880:** *The Naturalists' Directory*. Boston, S.E. Cassino, 1880. 194 p. Entries are arranged geographically with no index.

**5th ed., 1882:** *The International Scientists' Directory*. Boston, S.E. Cassino, 1882. 435 p. Geographically by country, c16,000 naturalists are listed. There is no index.

**6th ed., 1883:** *The International Scientists' Directory*. Boston, S.E. Cassino, 1883. 2 parts. 150 p.; 299 p. Part 1 includes naturalists from the New World. Part 2 includes naturalists from the Old World. In all c17,000 entries are

arranged alphabetically within countries. No index.

**7th ed., 1884:** *The Naturalists Directors*. Boston, S.E. Cassino, 1884. 216 p. Lists 4,524 naturalists from the U.S. and Canada.

**8th ed., 1885:** *The International Scientists Directory*. Boston, S.E. Cassino, 1885. 2 parts. 273 p.; 199 p. Lists 4,821 naturalists from the U.S. and Canada.

**9th ed., 1886:** *The Naturalists Directory*. Boston, S.E. Cassino, 1886. 252, 10 p. Lists 4,801 U.S. and Canadian naturalists.

**10th ed., 1888:** *The International Scientists Director*. Boston, S.E. Cassino, 1888. 2 parts. 286 p.; 205 p. Part 1 lists 4,667 New World naturalists. Part 2 lists Old World naturalists.

**11th ed., 1890:** *The Naturalists' Directory*. Boston, S.E. Cassino, 1890. 215 p.; 70 p. Part 1 lists 4,914 U.S. and Canadian naturalists. Part 2 lists Old World naturalists.

**12th ed., 1892:** *The Scientists International Directory*. Boston, S.E. Cassino, 1892. . 2 parts. 275 p.; 164 p. Part 1 lists 6,174 U.S. and Canadian naturalists. Part 2 lists Old World naturalists.

**13th ed., 1894:** *The Scientists' International Directory*. Boston, S.E. Cassino, 1894. 2 parts. 279 p.; 286 p. Part 1 lists 6,174 U.S. and Canadian naturalists.

**14th ed., 1895:** *The Naturalists' Directory*. Boston, S.E. Cassino, 1895. 402 p. Lists 5,747 entries for U.S. and Canadian naturalists.

**15th ed., 1896:** *The Naturalists' Directory*. Boston, S.E. Cassino, 1896. . 2 parts. 340 p.; 126 p. Part 1 lists 6,350 entries for the New World. Part 2 lists Old World naturalists.

**16th ed., 1898:** *The Naturalists Directory*. Boston, S.E. Cassino, 1898. 227 p. Lists 5,374 U.S. and Canadian naturalists.

**17th ed., 1905:** *The Naturalists' Universal Directory*. Salem, S.E. Cassino, 1905. . 2 parts. 404 p.; 208 p. After a gap of seven years this edition appeared. It is the last of the international editions. Although the title page indicates that it is the 19th edition, this is an error. Part 1 lists 5,408 New World naturalists. Part 2 is the *International Directory*.

**18th ed., 1914:** *The Naturalists Directory*. Salem, S.E. Cassino, 1914. 212 p. Again after a significant delay this edition appeared.

**19th ed., 1919:** Salem, S.E. Cassino, 1919. 176 p.

**20th ed., 1924:** Salem, S.E. Cassino, 1924. 200 p.

**21st ed., 1925:** Salem, S.E. Cassino, 1925. 226 p.

**22nd ed., 1927:** Salem, S.E. Cassino, 1927. 320 p.

**23rd ed., 1929:** Salem, S.E. Cassino, 1929. 310 p.

**24th ed., 1930:** Salem, S.E. Cassino, 1930. 308 p.

**25th ed., 1931:** Salem, S.E. Cassino, 1931. 284 p. This is the first printing to be labeled with an edition number, which is correctly stated as the 25th edition.

**26th ed., 1932:** Salem, S.E. Cassino, 1932. 224 p.

**27th ed., 1933:** Salem, S.E. Cassino, 1933. 190 p.

**28th ed., 1934:** Salem, S.E. Cassino, 1934. 184 p.

**29th ed., 1935:** Salem, S.E. Cassino, 1935. 176 p.

**30th ed., 1936:** Salem, S.E. Cassino, 1936. 184 p.

**31st ed., 1938:** Salem, Herman E. Cassino, 1938. 232 p.

**32nd ed., 1940:** Herman E. Cassino, 1940. 296 p.

**33rd ed., 1943:** Herman E. Cassino, 1943. 196 p.

**34th ed., 1946:** Herman E. Cassino, 1946. 220 p.

**35th ed., 1948:** Herman E. Cassino, 1948. 236 p.

**36th ed., 1951:** Herman E. Cassino, 1951. 264 p.

**37th ed., 1954:** Herman E. Cassino, 1954. 236 p.

**38th ed., 1958:** *The Naturalists' Directory (International)*. Salem, Madeleine E. Cassino, 1958. 174 p. This title change lasts through the 1978 edition.

**39th ed., 1961:** PCL, 1961. Jerrold Oakley, editor. 176 p.. This is the first edition outside the Cassino family. It is the first published under the PCL imprint.

**40th ed., 1968:** Allen S. Cummings, editor. 181 p.

**41st ed., 1972:** Willard H. Baetzner, editor. 182 p.

**41st ed., suppl., 1973:** Willard H. Baetzner, editor. 59 p.

This is the first supplement issued.

**42nd ed., 1975:** Willard H. Baetzner, editor. 259 p.

**43rd ed., 1978:** WNHP, 1978. Ross H. Arnett, Jr, editor. 310 p. This is the first edition published under the WNHP imprint.

**43rd ed., suppl., 1980:** *The Naturalists' Directory & Almanac (International)*. WNHP, 1980. Ross H. Arnett, Jr, editor. 80 p. This is the second supplement issued. This is also the new title.

**44th ed., 1985:** F&P, 1985. Ross H. Arnett, Jr and Mary E. Arnett, editors. 292 p. This edition was published under the F&P imprint.

**45th ed., 1990:** SCP, 1990. Ross H. Arnett, Jr and Mary E. Arnett, editors. 310 p. This edition was published under the SCP imprint.

**46th ed., 1993:** SCP, 1993. Ross H. Arnett, Jr and Mary E. Arnett, editors. 438 p.

REFERENCES: Kisling, V.N., "The Naturalists' Directory and the evolution of communication among American naturalists," *Archives of Natural History*, **21** (1994), no. 3, 393-406, illus. • NUC.

## NATURGESCHICHTE DES MINERALREICHS.

### 3471. — German, 1806.

Naturgeschichte des Mineralreichs. Mit Abbildungen. Stadtamhof, Daisenberger, 1806.

8°: xxx, 280 p., illus.

VERY RARE. A contemporary review says this inferior work can be criticized in all areas, including its perplexing language, the arguments it uses to support its basic principals, and its outright plagerism of other works.

REFERENCES: Leonard's *Taschenbuch*: **1**, 334.

## NATURWISSENSCHAFTLICHE.

### 3472. — German, 1847-51 [Periodical].

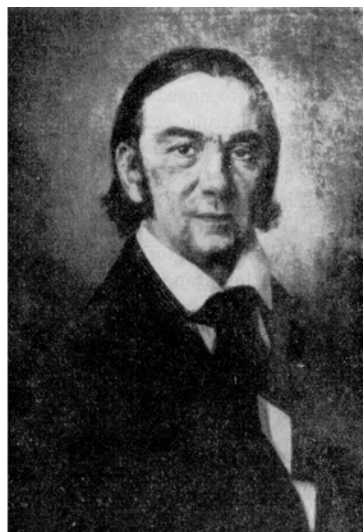
Naturwissenschaftliche | Abhandlungen, | Gesammelt Und Durch Subscription | Herausgegeben | Von | Wilhelm Haidinger. | [rule] | Erster [-Vierte] Band. | Mit XXII Tafeln. | Subscriptionsjahr vom 1. Juli 1846 bis 1. Juli 1847. | [ornate rule] | Wien, 1847 [-1851]. | Bei Braumüller und Seidel, | k.k. Hofbuchhändler.

4 vols. [VOL 1] 4°: xvii, 3, 475 p., 22 plates. [VOL 2] 4°: xxii, 1, 317, [1], 115, [1] p., 30 plates. [VOL 3] 4°: xxi, 178, 284 p., 33 plates. [VOL 4] 4°: xvi, 100, 104, 147, 134 p., 30 plates.

VERY SCARCE. A rare periodical, edited by Haidinger and published for the 166 subscribers over the course of four years. Most of the subscribers were famous scientists.

**NAUMANN, Georg Amadeus Carl Friedrich.** (BORN: Dresden, Germany, 30 May 1797; DIED: Leipzig, Germany, 26 November 1873) *German mineralogist & crystallographer.*

Naumann was brother of the Freiberg Bergakademie mathematician Constantin August Naumann [1800-1852]. He made a extensive trip through Norway in 1821 and 1822, before becoming a private docent first at Jena in 1823 and then Leipzig in 1824. He was appointed a professor of crystallography and disciiliar-Inspector at the Freiberg Bergakademie in 1826. In 1835, his duties increased to include a professorship of geognosy. In 1842, Naumann was



NAUMANN

named professor ordinary of mineralogy and geognosy at the University of Leipzig. He was elected a foreign member of the French Academy of Sciences and the Saxon Royal Academy of Science.

REFERENCES: ADB: **23**, 316. • *American Journal of Science*: **107** (1874), 80. • Barr, *Index to Biographical Fragments*, 1973: 188. • Cleevly, *World Palaeontological Collections*, 1983: 212. • DBA: I 885, 378; II 937, 254-258. • DSB: **9**, 620. • Lambrecht & Quenstedt, *Catalogus*, 1938: 309. • *Leopoldina*: **9** (1874), 83-7. • *Neues Jahrbuch für Mineralogie, Geologie und Paläontologie*: **1874**, 147-54 [By H.B. Geinitz]. • Poggendorff: **2**, cols. 257-8 & **3**, 958. • *Proceedings of the Geological Society, London*: **1874**, p. 1-11 [By Duke of Argyll]. • Rast, H., "Als C.F. Naumann vor 100 Jahren die Hohnburger Berge geologisch kartierte," *Rundblick*, **21** (1974), no. 1, 42-4. • Rast, H., "C.F. Naumann entdeckte die Felsschliffe in den Hohnburger Bergen," *Rundblick*, **21** (1974), no. 2, 173-6. • Sarjeant, *Geologists*, 1980: **3**, 1777-8 & Suppl. 1 (1986), **2**, 654. • Schaedler, *Biographisch Handwörterbuch*, 1891: 84. • Schiffner, *Alter Freiburger Bergstudenten*, 1935-40: **1**, 30-1. • Wagner, *Mineralogisch Durchforschung Sachsens*, 1902: p. 111-6. • WBI. • *World Who's Who in Science*: 1242.

### 3473. — German, 1824.

Beyträge zur Kenntniß Norwegen's, gesammelt auf Wanderungen während der Sommermonate der Jahre 1821 und 1822, von Carl Friedrich Naumann ... Leipzig, A. Wienbrack, 1824.

2 vols. [VOL 1] xx, 243 p. [VOL 2] xvi, 406, [2] p., 9 plates (folding, 4 hand-colored).

VERY SCARCE. Description of Naumann's mineralogical trip to Norway in the summer months of 1821 and 1822, before becoming an important instructor at the Bergakademie in Freiberg.

REFERENCES: NUC: **408**, 403-5 [NN 0077139]. • Schiötz, *Utlendingers Reiser i Norge*, 1970-86: 719.

### 3474. — German, 1825 [Dissertation].

De | Hexagonali | Crystallinarum Formarum | Systemate | Pars Prior. | [rule] | Dissertatio | Quam | In Academia Lipsiensi | Amplissimi

## NAUMANN

Philosophorum Ordinis Auctoritate | Pro | Venia  
Docendi Et Pro Juribus | Magisterii Lipsiensis  
Consequendis | Illustris Ictorum Ordinis Concessu  
| In Auditorio Juridico | Die V. Febr. MDCCCXXV  
| Accumto A Meridie Socio | Carolo Maier  
| Gothano | Philologiae Studioso | Publice  
Defendet Auctor | Carolous Fridericus Naumann  
| Dresdensis | [...2 lines of titles and memberships...]  
| [tapered rule] | Lipsiae | Ex Officina Glubchii |  
MDCCCXXV.

2 parts. [Part 1] [4], [1]-48 p. [Part 2] [2], [49]-  
81, [1] p., one plate showing 3 figs. of crystal drawings.  
PAGE SIZE: 195 x 120 mm.

CONTENTS: [Part 1] [2 pgs], Title page, verso blank;  
[1 pg], Quotation in Latin signed Paulus Manutius.; [1 pg],  
Blank.; [1]-47, Text.; 48, "Theses." [Part 2] [2 pgs], Title  
page, verso blank.; [49]-81, Text.; [1 pg], Blank.; [At end],  
One plate.

RARE. Naumann's dissertation in which he  
describes occurrences of the hexagonal crystal system  
in nature including minerals, basalts, chemicals, etc.

REFERENCES: BMC: 3, 1402-3. • NUC: 408, 403-5 [NN  
0077140].

### 3475. — German, 1826.

Entwurf | der | Lithurgik | oder | ökonomischen  
Mineralogie, | ein | Leitfaden | für | Vorlesungen,  
| von | Dr. Carl Friedrich Naumann, | [...3 lines of  
titles and memberships...] | [tapered rule] | Leipzig, |  
bei Adolph Wienbrack. | [short rule] | 1826.

8°: xx, 300 p. VERY RARE.

REFERENCES: BMC: 3, 1402-3. • NUC: 408, 403-5 [no  
copy listed].

### 3476. — German, 1826.

Grundriss der Krystallographie. Leipzig, 1826.

8°: xxiv, 408 p., 3 plates. RARE.

REFERENCES: BMC: 3, 1402-3. • NUC: 408, 403-5 [NN  
0077165].

### 3477. — German, 1828.

Lehrbuch | der | Mineralogie | von | D.  
Carl Friedrich Naumann, | Professor an der  
Bergakademie in Freiberg. | [tapered rule] | Mit  
einem Atlas von 26 Tafeln. | [tapered rule] | Berlin  
bei August Rücker. | [short rule] | 1828.

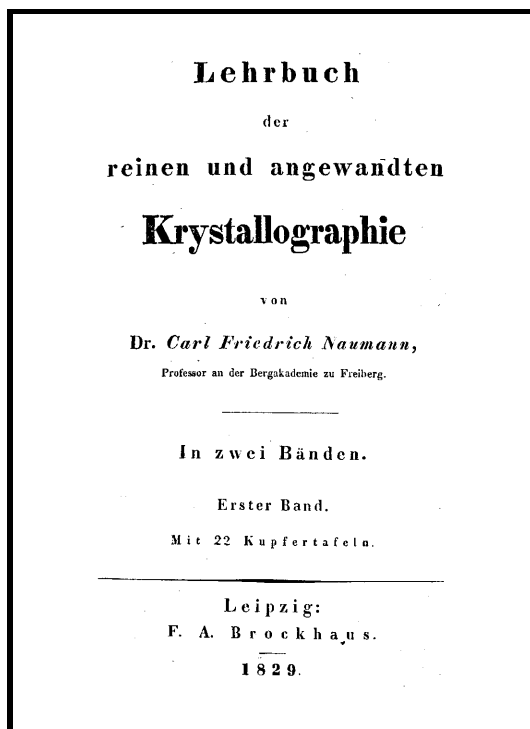
8°: xvi, 643 p., 26 plates.

RARE. Forming volume one of the *Encyclopädie  
der speciellen Naturgeschichte*.

REFERENCES: BMC: 3, 1402-3. • Dana's 7th  
(Bibliography): 77. • NUC: [no copy listed].

### 3478. — German, 1829-30.

Lehrbuch | der | reinen und angewandten |  
Krystallographie | von | Dr. Carl Friedrich  
Naumann, | Professor an der Bergakademie zu  
Freiberg. | [rule] | In zwei Bänden. | Erster Band.  
| Mit 22 Kupfertafeln. | [tapered rule] | Leipzig: |  
F.A. Brockhaus. | [rule] | 1830.



LEHRBUCH, 1829

2 vols. and atlas. [VOL 1] 8°:  $\pi^6$  1-31<sup>8</sup> 32<sup>4</sup> 33<sup>5</sup>;  
263<sup>ℓ</sup>; [i]-x, [2], [1]-511, [3] p. [VOL 2] 8°:  $\pi^5$  1-34<sup>8</sup> 35<sup>4</sup>  
36<sup>2</sup> 233<sup>2</sup>; 283<sup>ℓ</sup>; [i]-vii, [3], [1]-556 p. [Atlas] 39 plates  
labeled Taf I-Taf XXXIX showing crystal drawings.  
PAGE SIZE: 200 x 120 mm.

CONTENTS: [Vol 1] [i-ii], Half title page, "Dr.  
Carl Friedrich Naumann's | Lehrbuch | der reinen  
und angewandten | Krystallographie. | [rule] |  
Erster Band.", verso blank.; [iii-iv], Title page, verso  
blank.; [v], Dedication to Mohs and Weiss.; [vi], Blank;  
[vii]-x, "Vorwort."—signed Carl Naumann.; [2 pgs],  
Publisher's list.; [1]-511, Text.; [1 pg], Blank.; [1 pg],  
"Verbesserung."; [1 pg], Blank.

[Vol 2] [i-ii], Half title page, "Dr. Carl Friedrich  
Naumann's | Lehrbuch | der reinen und angewandten |  
Krystallographie. | [rule] | Zweiter Band.", verso blank.;  
[iii-iv], Title page, verso blank.; [v]-vii, "Vorwort."—signed  
Carl Naumann.; [1 pg], Blank.; [1 pg], Half title page  
repeated.; [1 pg], Blank.; [1]-516, Text.

[Atlas] No Title page. The atlas consists of 39 plates  
labeled Taf I-Taf XXXIX showing crystal drawings.

VERY SCARCE. His "Lehrbuch der reinen und  
angewandten Krystallographie" (1830) was even more  
important in that Naumann introduced a novel method  
for the designation and treatment of crystal forms,  
which greatly simplified and coordinated those of Weiss  
and Mohs and which was adopted almost immediately  
by German crystallographers. Naumann also analyzed  
the tetragonal system in this work and commenced  
an examination of the incomplete symmetry of some  
crystals, which led to many published descriptions  
of tetartohedrism and hemimorphism. Although  
Naumann continued to write on crystallography, his

central interest turned to geognosy.

REFERENCES: BMC: 3, 1402-3. • Dana's 7th (Bibliography): 77. • NUC: 408, 403-5 [NN 0077170].

### Anfangsgründe der Krystallographie

**3479. — German, 1841** [First edition].

Anfangsgründe der Krystallographie. Von Dr. Carl Friedrich Naumann ... Mit 25 Steindrucktafeln. Dresden & Leipzig, In der Arnoldischen Buchhandlung, 1841.

8°: xii, 302, [2] p., 25 plates.

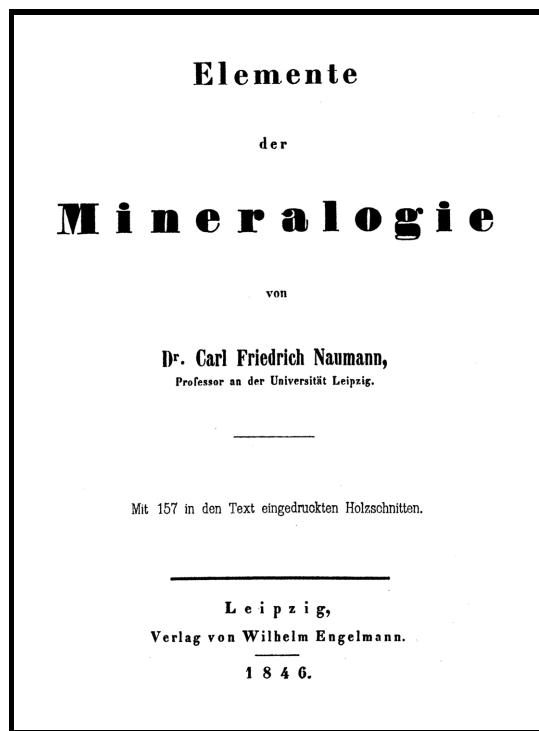
RARE. Naumann develops the study of crystallography from a mathematical standpoint.

REFERENCES: BMC: 3, 1402-3. • NUC: 408, 403-5 [NN 0077137].

**3480. 2nd edition, 1854:** Anfangsgründe | der | Krystallographie. | [rule] | Von | Dr. Carl Friedrich Naumann, | Professor an der Universität zu Leipzig. | [rule] | Zweite vermehrte und verbesserte Auflage. | Mit 26 Steindrucktafeln. | [rule] | Leipzig, | Arnoldische Buchhandlung. | 1854.

8°: xvi, 292 p., 26 lithographic plates. VERY SCARCE.

REFERENCES: BMC: 3, 1402-3. • Dana's 7th (Bibliography): 77. • NUC: 408, 403-5 [NN 0077138].



ELEMENTE, 1846

### Elemente der Mineralogie

**3481. — German, 1846** [First edition].

Elemente | der | Mineralogie | von | Dr. Carl Friedrich Naumann, | Professor an der Universität Leipzig. | [rule] | Mit 157 in den Text eingedruckten

Holzschnitten. | [rule] | Leipzig, Verlag von Wilhelm Engelmann. | [rule] | 1846.

8°: xii, 440 p., 157 illus.

RARE. This is the first appearance of Naumann's *Elements of Mineralogy* a deservedly praised textbook, which became the most popular instrument in the German university system of the last half of the nineteenth century. During his lifetime, on a regular basis Naumann revised and enlarged the text, thus keeping in step with all the latest discoveries in the science. After his death in 1873, the tenth edition of the work appeared under the editorship of one of his former students, Ferdinand Zirkel, a renowned mineralogist in his own right.

REFERENCES: BMC: 3, 1402-3. • NUC: 408, 403-5 [NN 0077141].

**3482. 2nd edition, 1850:** Elemente der Mineralogie. Zweite, vermehrte und verbesserte Auflage. Leipzig, W. Engelmann, 1850.

8°: xvi, 478, [2] p., 362 text illus. RARE.

REFERENCES: BMC: 3, 1402-3. • Dana's 7th (Bibliography): 77. • NUC: 408, 403-5 [NN 0077142].

**3483. 3rd edition, 1852:** Elemente | Der | Mineralogie | Von | Carl Friederich Naumann, | Professor An Der Universität Leipzig. | [rule] | Dritte, Vermehrte Und Verbesserte Auflage. | Mit 385 Figuren In Holzschnitt. | [tapered rule] | Leipzig, | Verlag Von Wilhelm Engelmann. | 1852.

8°: [i]-xvi, [1]-448 p., 385 woodcut illus. PAGE SIZE: 152 x 225 mm.

CONTENTS: [i-ii], Half title page, "Elemente Der Mineralogie," verso blank.; [iii-iv], Title page, verso blank.; [v], "Vorwort."—signed C.F. Naumann, 26 June 1846.; [vi]-vii, "Vorrede zur zweiten Auflage."—signed C.F. Naumann, 6 July 1850.; [viii], "Vorrede zur dritten Auflage."—signed C.F. Naumann, 30 May 1852.; [ix]-xvi, "Inhalt.;" [1]-440, Text.; [441]-448, "Register."

VERY SCARCE. Prof. Naumann in his excellent work, commences with crystallography, the elements of which are presented without entering into mathematical formulas. The physical and chemical characters and classification of minerals occupy the next 90 pages, and are treated with much detail and system. In his classification of species, which is related to that of Mohs, he adopts 16 classes: — I. Hydrogenoxyd; II. Hydrolytes; III. Chalcites; IV. Haloids; V. Earths; VI. Geolites; VII. Amphoterolites; VIII. Chalcolites; IX. Tantalitoids; X. Metalloxyds; XI. Metals; XII. Glances or Galenoids; XIII. Pyritoids; XIV. Cinnabarites or Blendes; XV. Thiolites; XVI. Anthracides. The arrangement is quite similar to that adopted (as a modification of Mohs's system) in the 1st and 2nd editions of Dana's *Mineralogy*. The author enumerates and describes 643 species of minerals, giving the crystallography and chemical characters of each briefly but with precision, and mentioning the prominent localities.

REFERENCES: *American Journal of Science*: 2nd Series, 15 (1853), 430. • BMC: 3, 1402-3. • Dana's 7th (Bibliography): 77. • NUC: 408, 403-5 [NN 0077143].

**3484. 4th edition, 1855:** Elemente | Der | Mineralogie | Von | Dr. Carl Friedrich Naumann, | Professor An Der Universität Leipzig. | [rule] | Vierte, vermehrte und verbesserte Auflage. | Mit 398 Figuren in Holzschnitt. | [ornate rule] | Leipzig, | Verlag Von Wilhelm Engelmann. | 1855.

8°: [i]-xvi, [1]-479, [1] p., illus. VERY SCARCE.

CONTENTS: [i-ii], Half title page, "Elemente Der Mineralogie," verso blank.; [iii-iv], Title page, verso blank.; [v]-viii, "Vorwort" (=reprints of the 'Vorworts' from the first to the fourth editions.); [ix]-xvi, "Inhalt.;" [1]-470, Text.; [471]-479, "Register.;" [1 pg], "Druck von Breitkopf und Härtel in Leipzig."

REFERENCES: BMC: 3, 1402-3. • Dana's 7th (Bibliography): 77. • NUC: 408, 403-5 [NN 0077144].

**3485. 5th edition, 1859:** Elemente | Der | Mineralogie | Von | Dr. Carl Friedrich Naumann, | [...5 lines of titles and memberships...] | [rule] | Fünfte, Vermehrte Und Verbesserte Auflage. | Mit 483 Figuren In Holzschnitt. | [ornate rule] | Leipzig, | Verlag Von Wilhelm Engelmann. | 1859.

8°: [iii]-xvi, [1]-460 p., 483 illus. "Literatur", p. 5-6. PAGE SIZE: 152 x 225 mm. VERY SCARCE.

CONTENTS: [i-ii], Half title page, verso blank? [not present in copy examined.]; [iii-iv], Title page, verso "Das Recht der englischen und französischen Uebersetzung dieser fünf- | ten Auflage hat sich der Verleger vorbehalten."; [v]-viii, "Vorwort."—signed C.F. Naumann, 30 December 1858.; [ix]-xvi, "Inhalt.;" [1]-6, "Einleitung.;" [7]-176, "Präparativer Theil.;" [177]-451, "Applicativer Theil.;" [452]-460, "Register zur Physiographie."

REFERENCES: BMC: 3, 1402-3. • Dana's 7th (Bibliography): 77. • NUC: 408, 403-5 [NN 0077145].

**3486. 6th edition, 1864:** Elemente | Der | Mineralogie | Von | Dr. Carl Friedrich Naumann, | [...5 lines of titles and memberships...] | [rule] | Sechste, Vermehrte Und Verbesserte Auflage. | Mit 718 Figuren In Holzschnitt. | [ornate rule] | Leipzig, | Verlag Von Wilhelm Engelmann. | 1864.

8°: xvi, 500 p., 718 woodcut illus. VERY SCARCE.

REFERENCES: BMC: 3, 1402-3. • Dana's 7th (Bibliography): 77. • NUC: 408, 403-5 [NN 0077146].

**3487. 7th edition, 1868:** Elemente | Der | Mineralogie | Von | Dr. Carl Friedrich Naumann, | [...5 lines of titles and memberships...] | Siebente vermehrte und verbesserte Auflage. | Mit 796 Figuren In Holzschnitt. | [ornate rule] | Leipzig, | Verlag Von W.Engelmann. | 1868.

8°: [i]-xv, [1], [1]-566 p., 796 illus. VERY SCARCE.

CONTENTS: [i-ii], Half title page, "Elemente Der Mineralogie," verso blank.; [iii-iv], Title page, verso "Das Recht ..."; [v]-viii, "Vorwort" (=reprints sections from the 'Vorworts' from the previous editions.); [ix]-xv, "Inhalt.;" [1 pg], "Verbesserungen und Zusätze.;" [1]-566, Text.; [557]-566, "Register der Physiographie."

REFERENCES: BMC: 3, 1402-3. • Dana's 7th (Bibliography): 77. • NUC: 408, 403-5 [NN 0077147].

**3488. 8th edition, 1871:** Elemente | Der | Mineralogie | Von | Dr. Carl Friedrich Naumann, | [...6 lines of titles and memberships...] | [rule] | Achte, Vermehrte Und Verbesserte Auflage. | Mit 836 Figuren In Holzschnitt. | [ornate rule] | Leipzig, | Verlag Von Wilhelm Engelmann. | 1871.

8°: xvi, 606 p., 836 woodcut illus. SCARCE.

REFERENCES: *American Journal of Science*: 102 (1871), 232. • BMC: 3, 1402-3. • Dana's 7th (Bibliography): 77. • NUC: 408, 403-5 [NN 0077148].

**3489. 9th edition, 1874:** Elemente | Der | Mineralogie | Von | Dr. Carl Friedrich Naumann, | [...7 lines of titles and memberships...] | [rule] | Neunte, Vermehrte Und Verbesserte Auflage. | Mit 871 Figuren In Holzschnitt. | [tapered rule] | Leipzig, | Verlag Von Wilhelm Engelmann. | 1874.

8°:  $\pi^8$  1-408 417; 335 $\ell$ .; [i]-xv, [1], [1]-654 p., 871 woodcut illus. PAGE SIZE: 232 x 146 mm. SCARCE.

CONTENTS: [i-ii], Half title page, "Elemente Der Mineralogie," verso blank.; [iii-iv], Title page, verso "Das Recht der englischen und französischen Uebersetzung dieser neunten Auflage | hat sich der Verleger vorbehalten.;" [v]-viii, "Vorwort.;" [ix]-xv, "Inhalt.;" [1 pg], "Verbesserungen und Zusätze.;" [1]-8, "Einleitung.;" [9]-197, "Präparativer Theil.;" 198-644, "Zweites Hauptstück.;" [645]-654, "Register zur Physiographie."

REFERENCES: BMC: 3, 1402-3. • Dana's 7th (Bibliography): 77. • NUC: 408, 403-5 [NN 0077149].

## Zirkel's Stewardship

In 1873 after the death of Naumann, authorship of the *Elemente der Mineralogie* transferred to Ferdinand Zirkel [1838-1912]. One of the best mineralogists of the time Zirkel continued the textbook authoring six more editions until the last issue appeared in 1907.

**3490. 10th edition, 1877:** Elemente | der | Mineralogie | von | Carl Friedrich Naumann. | [rule] | Zehnte, Gänzlich Neubearbeitete Auflage | Von | Dr. Ferdinand Zirkel, | Ord. Professor Der Mineralogie Und Geognosie An Der Universität Leipzig. | [rule] | Mit 891 Figuren In Holzschnitt. | [ornate rule] | Leipzig, | Verlag Von Wilhelm Engelmann. | 1877.

8°:  $\pi^6$  1-448 455; 363 $\ell$ .; [i]-xii, [1]-714 p., 891 woodcut illus. PAGE SIZE: 228 x 150 mm. SCARCE.

CONTENTS: [i-ii], Half title page, "Elemente Der Mineralogie," verso blank.; [iii-iv], Title page, verso "Das Recht der englischer und französischen Uebersetzung..."; [v]-vi, "Vorrede."—signed F. Zirkel, September 1877.; [vii]-xii, "Inhalt.;" [1]-698, Text.; [699]-703, "Zusätze und Berichtigungen.;" [704]-714, "Register zur Physiographie."

**Ferdinand Zirkel.** (BORN: Bonn, Germany, 20 May 1838; DIED: Bonn, Germany, 11 June 1912) *German mineralogist, petrographer & geologist*. Zirkel was educated in his native town, and graduated Ph.D. at the university in 1861. In early years he was engaged in teaching geology and mineralogy in Vienna. He became professor of geology in 1863 at the University of Lemberg, in 1868 at Kiel, and in 1870 professor of mineralogy and geology in the University of Leipzig.

REFERENCES: BMC: 3, 1402-3. • Dana's 7th (Bibliography): 77. • NUC: 408, 403-5 [NN 0077150]. (*Zirkel*) *American Journal of Science*: 4th Series, 184 (1912), 228. • Barr, *Index to Biographical Fragments*, 1973: 289. • *Ber. Verh. sächs. Akad. Ges. Wiss., Leipzig, Germany, Math.-Phys. Kl.*: 64 (1912), 499-508. • DBA: I 1416, 381-382; II 1450, 87-100. • *Der Geologie*: 12 (1914), 7 p. • DSB: 14, 625 [by G.C. Amstutz]. • Freund & Berg, *Geschichte der Mikroskopie*, 1966. • *Math. Naturw. Blätter*: 9 (1912), no. 10, 145-6. • *Nature*: 76 (1907), 605. • Poggendorff: 3, 1487, 4, 1693 & 5, 1412. • *Proceedings of the Geological Society, London*: (1912-3), lv-lvii. • *Quarterly Journal of Geological Society of London*: 69 (1913), ?? . • Sarjeant, *Geologists*, 1980: 3, 2489-90. • *Science*: 36 (1912), 48. • WBI. • *World Who's Who in Science*: 1847. • *Zeitschrift der Deutschen Geologischen Gesellschaft, Monatsberichte*: Jg. 1912, no. 7, 354-63, portrait. • *Zeitschrift prakt. Geol.*: Jg. 1912, 383. • *Zentralblatt für Mineralogie*: Jg. 1912, 513-22, portrait.

**3491. 11th edition, 1881:** Elemente | Der | Mineralogie | Von | Carl Friedrich Naumann. | [short rule] | Elfte, Vollständig Neu Bearbeitete Und Ergänzte Auflage | Von | Dr. Ferdinand Zirkel, | Ord. Professor der Mineralogie und Geognosie an der Universität Leipzig. | [short rule] | Mit 918 Figuren In Holzschnitt. | [ornate rule] | Leipzig, | Verlag Von Wilhelm Engelmann. | 1881.

8°: [i]-xii, [1]-735 p., 918 woodcut illus. SCARCE.

CONTENTS: [i-ii], Title page, verso "Das Recht ..."; [iii]-iv, "Vorrede Zur Zehnten Auflage."—signed F. Zirkel, September 1877.; [v], "Vorrede Zur Elften Auflage."—signed F. Zirkel, June 1881.; [vi], Blank.; [vii]-xii, "Inhalt.;" [1]-724, Text.; [725]-735, "Register zur Physiographie.;" [1 pg], "Druck von Breitkopf & Härtel in Leipzig."

REFERENCES: BMC: 3, 1402-3. • Dana's 7th (Bibliography): 77. • NUC: 408, 403-5 [NN 0077151].

**3492. 12th edition, 1885:** Elemente | Der | Mineralogie | Begründet Von | Carl Friedrich Naumann. | [short rule] | Zwölfte, Vollständig Neu Bearbeitete Und Ergänzte Auflage | Von | Dr. Ferdinand Zirkel | [...2 lines of titles and memberships...] | [short rule] | Mit 951 Figuren In Holzschnitt. | [ornate rule] | Leipzig | Verlag Von Wilhelm Engelmann | 1885.

8°: [i]-xii, [1]-782 p., 951 woodcut illus. PAGE SIZE: 230 x 154 mm. SCARCE.

CONTENTS: [i-ii], Title page, verso "Das Recht der

englischer..."; [iii]-iv, "Vorrede Zur Zehnten Auflage."—dated September 1877.; [v], "Vorrede Zur Elften Auflage."—June 1881.; [vi], "Vorrede Zur Zwölften Auflage."—August 1885.; [vii]-xii, "Inhalt.;" [1]-759, Text.; [760]-766, "Anhang.;" [767]-768, "Zusätze und Berichtigungen.;" [769]-770, "Register zum Allgemeinen Theil.;" 771-782, "Register zur Physiographie."

REFERENCES: BMC: **3**, 1402-3. • Dana's 7th (Bibliography): 77. • NUC: **408**, 403-5 [NN 0077152].

**3493. 13th edition, 1897-8:** Elemente der Mineralogie. Begründet von Carl Friedrich Naumann ... Dreizehnte vollständig umgearbeitete Auflage von Dr. Ferdinand Zirkel. Leipzig, W. Engelmann, 1897-8.

8°: xi, [1], 798 p., 1003 woodcut illus.

SCARCE. Issued in two parts, the text of this edition has been thoroughly revised reflecting the great progress in mineralogy since the previous edition of twelve years earlier. The first section treats crystallographic, physical, and chemical properties of minerals, while the second is a description of the species.

REFERENCES: *American Journal of Science*: **153** (1897), 424. • BMC: **3**, 1402-3. • Dana's 7th (Bibliography): 77. • NUC: **408**, 403-5 [NN 0077153].

**3494. 14th edition, 1901:** Elemente | der | Mineralogie | Begründet von | Carl Friedrich Naumann | (1873†) | Vierzehnte neu bearbeitete und ergänzte Auflage | von | Dr. Ferdinand Zirkel | Ord. Professor der Mineralogie und Geognosie an der Universität Leipzig, | K.S. Geheimen Rath | [rule] | Mit 1085 Figuren im Text | [ornate rule] | Leipzig | Verlag von Wilhelm Engelmann | 1901.

8°: xi, 807 p., 1085 illus. SCARCE.

REFERENCES: BMC: **3**, 1402-3. • Dana's 7th (Bibliography): 77. • NUC: **408**, 403-5 [NN 0077154].

**3495. 15th edition, 1907:** Elemente | Der | Mineralogie | Begründet Von | Carl Friedrich Naumann | (1873†) | [short rule] | Fünfzehnte, Neu Bearbeitete Und Ergänzte Auflage | Von | Dr. Ferdinand Zirkel | [...2 lines of titles and memberships...] | [short rule] | Mit 1113 Figuren im Text | [ornate rule] | Leipzig | Verlag Von Wilhelm Engelmann | 1907.

8°: i-xi, [1]-821, [3] p., 1113 illus. (instruments, diagrams, crystal drawings). PAGE SIZE: 230 x 156 mm. VERY SCARCE.

CONTENTS: [i-ii], Title page, verso "Alle Rechte ..."; [iii]-vi, "Vorrede Zur Zehnten [-Fünfzehnten] Auflage.;" [vii]-xi, "Inhalt.;" [1 pg], Blank.; [1]-792, Text.; [793]-801, "Anhang.;" [802]-806, "Register zum Allgemeinen Teil.;" [807]-821, "Register zur Physiographie.;" [1 pg], "Druck von Breitkopf & Härtel in Leipzig.;" [2 pgs], Advertisements.

REFERENCES: BMC: **3**, 1402-3. • Dana's 7th (Bibliography): 77. • NUC: **408**, 403-5 [NN 0077155].

### Spanish edition

**3496. Spanish transl., 1891:** Elementos de Mineralogia, publicados primero por Carlos Federico Naumann y continuados después de la muerte de éste por el Dr. Fernando Zirkel ... Traduit de la duodécima et alemana por D. Juan José Muñoz de Madariaga ... Madrid, Estab. tip. de los hijos de Lapuente, 1891.

8°: xvi, 995, [4] p.

RARE. Translated by JUAN JOSE MUÑOZ DE MADARIAGA from *Elemente der Mineralogie* (12th ed., Leipzig, 1885), this edition was created especially to be used in the school of engineering in Madrid.

REFERENCES: NUC: **408**, 403-5 [NN 0077157].

### Elemente der theoretischen Krystallographie

**3497. — German, 1856.**

Elemente | der | theoretischen | Krystallographie | von | Dr. Carl Friedrich Naumann, | Professor

an der Universität Leipzig. | [rule] | Mit 86 Holzschnitten. | [ornate rule] | Leipzig, | Verlag von Wilhelm Engelmann. | 1856.

8°:  $\pi^8$  1-248; 200 $\ell$ .; [i]-xvi, [1]-383, [1] p., 86 woodcut illus. PAGE SIZE: 226 x 145 mm.

CONTENTS: [i-ii], Title page, verso blank.; [iii]-viii, "Vorrede."—signed Carl Friedrich Naumann, 13 January 1856.; [ix]-xvi, "Inhalt.;" [1]-383, Text.; [1 pg], "Druck von Breitkopf und Härtel in Leipzig."

SCARCE. This important theoretical crystallography textbook is divided into two sections. Beginning from an introduction to analytical geometry, Naumann develops the foundation of crystallographic studies from a mathematical viewpoint. General topics covered include axis definitions, space groups, zoning, and twinning. The later section (pp. 73-383) applies the introductory material to detailed discussions of each crystal system class: tessular (cubic), tetragonal, hexagonal, rhombic, monoclinic, and triclinic. Within each of these systems Naumann provides in depth observations on the formation of the class, variations that are encountered, distortion of the axes, twinning, etc.

REFERENCES: BMC: **3**, 1402-3. • Dana's 7th (Bibliography): 77. • NUC: **408**, 403-5 [NN 0077156].

Comparaison et transformation des notations cristallographiques de Lévy ... Naumann, Dana. (Paris, 1874).

See: Selle, Albert De.

**3498. — German, 1838.**

A Table of Mineralogical Species. Cambridge, J. & J.J. Deighton, 1838.

8°: 34 p. RARE.

REFERENCES: NUC: **408**, 403-5 [NN 0077171]. • NYPL Catalog.

**NAUMANN, Johann Friedrich.** (BORN: 1780; DIED: 1857) *German naturalist.*

REFERENCES: ADB. • DBA: I 885, 298-303. • Hamberger & Meusel, *Gelehrte Deutschland*, 1796-1834. • WBI.

**3499. — German, 1838.**

Handbuch | der | Naturgeschichte des Mineralreichs | für | Schule und Haus. | [rule] | In Verbindung mit | Professor J.F. Naumann, | [...2 lines of titles and memberships...] | bearbeitet | von | Dr. Heinrich Gräse. | [double rule] | Eisleben und Leipzig, 1838. | Verlag von Georg Reichardt.

8°: 272 p., illus.

VERY RARE. This handbook to mineralogical studies was prepared especially for students and amateurs performing self-study. Written with Heinrich Gräfe [1802-1868], this forms the third section in a series of books that describe plants, animals, and minerals.

REFERENCES: BL: [no copy listed].

**NAUMANN, Karl Friedrich.**

See: Naumann, Georg Amadeus Carl Friedrich.

NAVAL ACADEMY.

NEFED'EV

**3500. — English, 1877** [Collection catalog].

A Preliminary Catalogue of the Minerals in the Cabinet of the U.S. Naval Academy, Annapolis, MD. Washington, Government Printing Office, 1877.

8°: 31 p. Printed wrappers. VERY SCARCE.

REFERENCES: NUC.

**NECKER DE SAUSSURE, Louis-Albert.** (BORN: Genf, Austria, 10 April 1786; DIED: 1861) *Austrian geologist & mineralogist.*

Uncle of Louis Necker [1730-1804], Louis-Albert was appointed honorary professor of mineralogy and geology at the Academy of Genf. He held membership in the Société de Physique et d'Histoire Naturelle. The last decade of his life he spent living in Scotland.

REFERENCES: ABF: I 780, 430-434. • Barr, *Index to Biographical Fragments*, 1973: 188. • Cleavelly, *World Palaeontological Collections*, 1983: 212. • DSB: 10, 8-9 [by K.L. Taylor; other refs.]. • *ISIS*, 1913-65: 2, 216. • Lambrecht & Quenstedt, *Catalogus*, 1938: 310. • *Nouvelle Biographie Générale* (Hofer): 37, cols. 592-3. • Poggendorff: 2, cols. 262 & 1431 & 3, 1779-80. • *Proceedings of the Edinburgh Royal Society*: 5 (1862-1866), 53-76 [by J.D. Forbes]. • WBI.

**3501. — French, 1835.**

Le | Règne Minéral | Ramené | Aux Méthodes  
| De | L'Histoire Naturelle. | Par L.A. Necker, |  
[...3 lines of titles and memberships...] | [tapered rule]  
Tome Premier. [-Deuxième.] | [tapered rule] | Paris,  
| F.G. Levrault, Libraire-éditeur, | rue de la Harpe,  
81. | Strasbourg, Même Maison, rue des Juifs, 33.  
| [short rule] | 1835.

2 vols. [VOL 1] 8°: [i]-vii, [1] blank, [1]-433, [1] blank, [4] p., 30 folding tables. [VOL 2] 8°: [i]-xiii, [1] blank, [1]-716 p. PAGE SIZE: 205 x 125 mm.

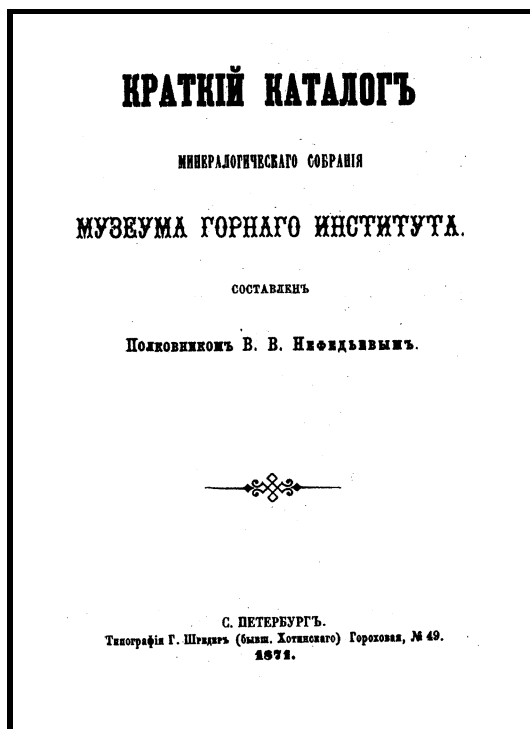
CONTENTS: [Vol 1] [i-ii], Half title page, "Le Règne Minéral," verso "Imprimerie D'Hippolyte Tilliard, ..."; [iii-iv], Title page, verso blank; [v]-vii, "Préface."; [1 pg], Blank; [1]-100, "Introduction."; [101], "Résumé des Principes de la Chemie et de la Physique Minérales."; [102], Blank; [103]-342, Text; [343], "Taxonomie ou Théorie de la Classification."; [344], Blank; 345-433, Text; [1 pg], Blank; [2 pgs], "Table des Matières du Tome Premier."; [1], "Tableaux."; [1 pg], Blank; [At end], 30 tables.

[Vol 2] [i-ii], Half title page, "Le Règne Minéral," verso "Imprimerie d'Hippolyte Tilliard, ..."; [iii-iv], Title page, verso blank; [v]-xiii, "Table des Matières du Tome Deuxième."; [1 pg], Blank; [1], "Classification."; [2], Blank; [3]-702, "Classification des Cristaux ou Individus Minéraux."; [703], "Fautes A Corriger."; [704], Blank; [705]-711, French index of names; [712], Blank; [713]-716, Latin index of names.

VERY SCARCE. Volume one covers the fundamentals of mineralogy including chemical and physical properties, nomenclature and the theory of classification. Volume two is a descriptive mineralogy, which closes with French and Latin indexes to the mineral species mentioned. A rare work.

REFERENCES: Dana's 7th (Bibliography): 77.

**NEFED'EV, V.V.** *Russian geologist & mineralogist.*



KRATKII KATALOGI, 1871

**3502. — Russian, 1871** [Collection catalog].

Краткій Каталогъ | Минералогического  
Собранія | Музеума Горнаго Института. |  
Составленъ | Полковникомъ В.В. Нефедьевымъ. | [ornate rule] | С. Петербургъ. | Типографія  
Г. Шредеръ (Бывш. Хотинскаго) Гороховая,  
№ 49. | 1871.

[TRANSLITERATED TITLE:]

Kratkii Katalogi | Mineralogischeskogo Sobraniia  
| Muzeuma Gornago Instituta. | Sostavlen |  
Poleovnikom V.V. Nefed'evym. | [ornate rule] |  
S. Petersburg. | Tipografia G. Shreder (Byvsh.  
Khotinskago) Gorokhovaia, No. 49. | 1871.

8°: π<sup>2</sup> 1-368 376 218 223; 307L.; [2], [i]-ii, [1]-588, [1]-19, [3] p. PAGE SIZE: 193 x 127 mm. uncut.

CONTENTS: [2 pgs], Title page, verso "Печатано съ разрѣшенія Совѣта Горнаго Института 20 Февраля 1871 г. | Генералъ-Лейтенантъ Гельмерсенъ."; [i]-ii, "Преисловіе."; [1]-588, Text; [1]-19, "Алфавитный Указатель | Расположенія Минераловъ."; [1 pg], Blank; [1], "Опечатки."; [1], Blank.

Translated title: Concise catalog of the mineralogical collection. Mining Institute museum.

VERY SCARCE. Catalog of the mineralogical section of the Museum of the St. Petersburg Mining Institute. After the very short introduction, the minerals are listed according to the system of classification described in Dana's *System of Mineralogy* (5th ed., London, 1868). Localities of the specimens are given for each species described. An alphabetical index

to the mineral species follows. The work concludes with a page of errata.

**St. Petersburg Mining Institute.** *Russian institution.* The oldest technical institution of higher learning in Russia. It was founded in 1773 as the Mining School and enjoyed a status similar to that of an academy. In 1804 it became the Military School of Mines, in 1833 the Institute of the Corps of Military School of Mines, and in 1866, the Institute of Mines. The ST. PETERSBURG MINERALOGICAL SOCIETY was founded at the institute in 1817. Many of the best Russian mineralogists, geologists and mining engineers graduated from this institution.

REFERENCES: BL: [no copy listed]. • Grigor'ev, D.P., Минералогия в Горном Институте за 175 лет. [Mineralogiia v Gornom Institute za 175 let]., *Zapiski Vsesoiuznogo Mineralogicheskogo Obshchestva*, 77 (1948), no. 3, p. 177-184, 2 plates. [Outlines the 175 year history of the Mining Institute of St. Petersburg, Russia.]: ?????? • NUC: [DLC copy]. (St. Petersburg Mining Institute) *Great Soviet Encyclopedia*: 14, 398-9 [by L.N. Kell].

**NEIL, James Stephen.** *English.*

### 3503. — English, 1908.

British Minerals and where to find them. London, [1908].

8°: [4], 222, [2] p. Forming a volume of Murby's *Science Series*. RARE.

REFERENCES: BMC: 3, 1409.

**NEIL, Patrick.** (BORN: Edinburgh, Scotland, 25 October 1776; DIED: Canonmills near Edinburgh, Scotland, 5 September 1851) *Scottish naturalist.*

Neil became head of a large printing firm in his home city. Early in life he devoted his spare time to the study of nature, especially botany and horticulture.

REFERENCES: Poggendorff: 2, col. 266.

### 3504. — English, 1806.

A Tour through Orkney and Shetland, with an appendix on the Shetland Isles, with a view chiefly to objects of natural history but including also occasional remarks of the state of the inhabitants, their husbandry, and fisheries a sketch of their Mineralogy etc. Edinburgh, Printed for A. Constable and Company, and John Murray, London, 1806.

8°: xi, 239 p. A work that caused some controversy for its realistic portrait of the dismal lives of the island's inhabitants. There is added a sketch of the island's mineralogy, probably abstracted from Robert Jameson's earlier study. VERY SCARCE.

REFERENCES: Poggendorff: 2, 266..

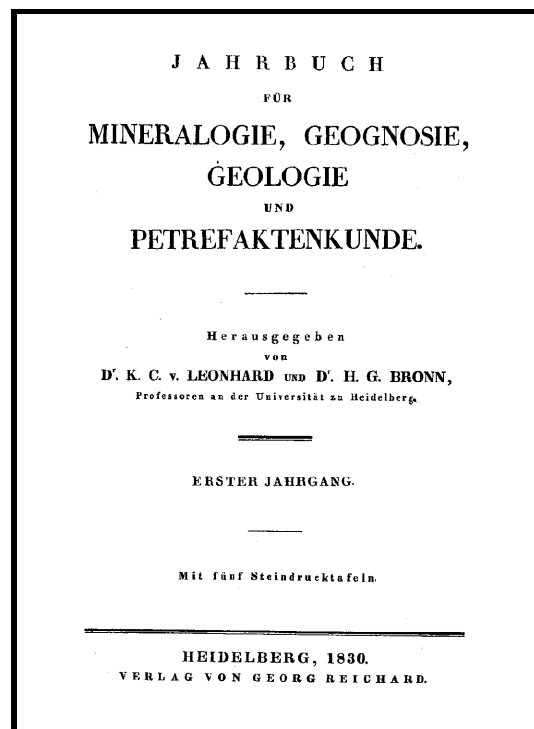
### NEUE BERG-ORDNUNG.

Neue Berg-Ordnung deß Königreichs Ungarn, und solcher Cron einverleibten Gold, Silber, Kupffer, und anderer Metall, Bergwerckten. Samt denen Erleütterungen Zweyer Alten Berg-Ordnungen der ... Freyen Berg-Städte Cremonitz, und Königsberg ... Nunmehr ... wiederum aufgelegt, und mit zweyen vollständigen Registern versehen. Von W.G. Fürsten. (Wien, 1703).

See: *Corpus Juris & Systema*.

### NEUE SCHRIFTEN.

See: Jena, Germany. Societät Für Die Gesamnte Mineralogie.



JAHRBUCH, 1830

### NEUES JAHRBUCH FÜR MINERALOGIE.

In 1807, Karl Caesar von Leonhard began to publish the first substantial journal devoted to mineralogy. Titled *Taschenbuch für die gesammte Mineralogie* [which see entry under that title], this serial was an eclectic mix of both amateur and professional articles, and it is an indispensable source for the history of early nineteenth century mineralogy. Becoming widely known as simply "Leonhard's Taschenbuch" it continued to be published until 1829. Then Leonhard together with H.G. Bronn founded a new periodical directed to a more professional readership and with a broader scope than just mineralogy. The first volume appeared in 1830 and was published in a larger format under the more encompassing title, *Jahrbuch für Mineralogie, Geognosie, Geologie und Petrefaktenkunde*. All topics of the earth sciences are covered within this journal including many important original articles, abstracts from other journals, book reviews, obituaries, etc. In 1833 the journal was renamed to the more familiar *Neues Jahrbuch für Mineralogie, etc.* This change reflected that the periodical was devoted to presenting all that was new in the science of mineralogy. In 1925 the periodical was split into two principle sections. Abteil A is devoted to mineralogy and petrology, while Abteil B contains articles relevant to geology and paleontology. This important journal remains today one of the foremost German scientific journals devoted to the earth sciences, including mineralogy.



## NEUES JAHRBUCH

### 3505. — German, 1830-2 [Periodical].

Jahrbuch | Für | Mineralogie, Geognosie, |  
Geologie | Und | Petrefaktenkunde. | [rule] |  
Herausgegeben | von | Dr. K.C. v. Leonhard und  
Dr. H.G. Bronn, | Professoren an der Universität  
zu Heidelberg. | [double rule] | Erster Jahrgang. |  
[rule] | Mit fünf Steindrucktafeln. | [double rule] |  
Heidelberg, 1830. | Verlag Von Georg Reichard.  
3 vols. Vol. 1 (1830) to Vol. 3 (1832).

VERY SCARCE. Published in a larger octavo format this journal is directed at a more professional readership than the *Taschenbuch der gesammte Mineralogie* [which see] that it supercedes. Leonhard had decided to change its focus based upon the material being received and the need for a journal that would cover all aspects of mineralogy, geology, and paleontology. For this reason the *Jahrbuch* was in 1830 founded with H. Bronn. It was truly a yearbook, giving details and abstracts of events that had occurred over the previous year in the specified fields, together with original articles, book reviews, obituaries, etc. Only 3 volumes of the *Jahrbuch* appeared from the Heidelberg publisher Georg Reichard, then in 1833, publication was moved to E. Schweizerbart's Verlagshandlung in Stuttgart, where both editors held teaching positions. But this necessitated the title change to the *Neues Jahrbuch* by which it was widely known through out the 19th century and to the first quarter of the 20th century. Due to its length of publication and inclusion of papers by every prominent mineralogist during it time, it is perhaps the best of all the many mineralogical journals published.

REFERENCES: Bolton, *Catalogue of Periodicals*, 1897: no. 4416a. • NUC. • *Union List of Serials*. • *USGS Library Catalog*.

#### Continued as:

**3506. 1833-62:** Neues Jahrbuch | für | Mineralogie, Geognosie, Geologie | und | Petrefaktenkunde, | herausgegeben | von | Dr. K.C. von Leonhard und Dr. H.G. Bronn, | Professoren an der Universität zu Heidelberg. | [rule] | Jahrgang 1833. | [rule] | Mit 10 Tafeln und 12 eingedruckten Holzschnitten. | [double rule] | Stuttgart. | E. Schweizerbart's Verlagshandlung. | 1833.

30 vols. (numbered IV-XXXIII). Vol. 4 (1833) to Vol. 33 (1862).

VERY SCARCE. In 1861 the founding editor, K.C. von Leonhard passed the editorship of the *Neues Jahrbuch* to his son Gustav, who in association with his co-editor, G. Bronn continued to bring out the journal. In 1878, Gustav died and Geinitz continued as editor.

In 1881 a series of supplemental volumes was published as the *Neues Jahrbuch ... Beilage-Band* [which see].

REFERENCES: Bolton, *Catalogue of Periodicals*, 1897: no. 4416b. • NUC. • *Union List of Serials*. • *USGS Library Catalog*.

#### Continued as:

**3507. 1863-1924:** Jahrbuch [Neues] für Mineralogie, Geologie, und Palaeontologie. Herausgegeben von v. Leonhard und Geinitz [from 1879, von E.W. Benecke, C. Klein und H. Rosenbusch]. Heidelberg [later Stuttgart], 1863-1924.

?? vols.

VERY SCARCE. From 1880 onward, two volumes per annum were published that contain no volume number.

REFERENCES: Bolton, *Catalogue of Periodicals*, 1897: no. 4416c. • NUC. • *Union List of Serials*. • *USGS Library Catalog*.



FESTSCHRIFT, 1907

### 3508. — German, 1907 [Festschrift Band].

Neues Jahrbuch | Für | Mineralogie, Geologie, | Und Paläontologie | [rule] | Unter Mitwirkung einer Anzahl von Fachgenossen | herausgegeben von | M. Bauer, E. Koken, Th. Liebisch | [...one line of titles...] | [rule] | Festschrift | zur Feier des 100jährigen Bestehens | [rule] | Mit 2 Portraits, XIX Tafeln und 73 Textfiguren | [rule] | Stuttgart | E. Schweizerbart'sche Verlagshandlung (E. Nägele) | 1907.

8°: 2 portraits (Leonhard and Bronn), 19 plates, 73 text illus.

RARE. The Festschrift Band or volume of celebration commemorating the 100 years of the journal founded by Leonhard in 1807 under the title *Taschenbuch für Mineralogie*. The first article "Das Neue Jahrbuch von 1807—1907" by E. Nägele provides a good history of the periodical and it is illustrated by fine portraits of Leonhard (frontispiece) and G.H. Bronn, two early editors.

REFERENCES: NUC.

### 3509. — German, 1881 [Periodical].

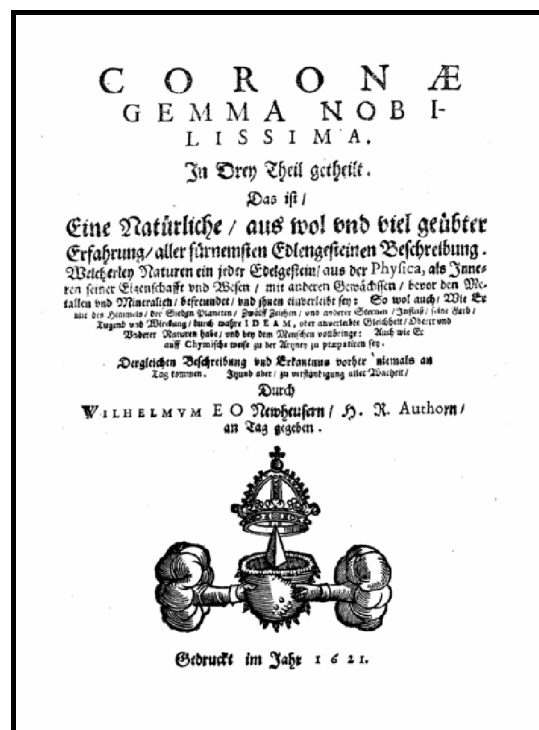
Neues Jahrbuch | für | Mineralogie, Geologie und Palaeontologie. | Unter Mitwirkung einer Anzahl von Fachgenossen | herausgegeben von | E.W. Benecke, C. Klein und H. Rosenbusch | [...one line of titles...] | [short rule] | I. Beilage-Band. | Mit Tafel I-XVII und mehreren Holzschnitten. | Stuttgart. | E. Schweizerbart'sche Verlagshandlung (E. Koch). | 1881.

?? vols.

RARE. This is a series of supplemental volumes to the famous earth science journal, *Neues Jahrbuch für Mineralogie, Geologie und Paläontologie*. It contains

articles that could not find room in the more famous parent publication. These articles seem to be of a more interesting character than simple mineral descriptions. In fact they are usually quite long and in depth studies on physical properties, instrumentation, new laboratory techniques, etc. These Beilage-Band were a separate subscription and appear to be rarer than the *Neues Jahrbuch*.

REFERENCES: Bolton, *Catalogue of Periodicals*, 1897: ??.  
• NUC. • *Union List of Serials*. • *USGS Library Catalog*.



CORONÆ GEMMA NOBILISSIMA, 1621

**NEUHEUSER, Wilhelm Eon.** *German prophet.*

REFERENCES: DBA: I 893, 52. • Jöcher, *Gelehrten-Lexikon*, 1750-51. • WBI.

**3510. — German, 1621.**

Coronæ | Gemma Nobil- | Lissima. | In Drey Theil getheilt. | Das ist/ | Eine Natürliche/ aus wol vnd viel geübter | Erfahr-ung/aller fürnem- sten Edlengesteinen Beschreibung. | Welcherley Naturen ein jeder Edelgestein/ aus der Physica, als Inne= | ren seiner Eigenschaffe vnd Wesen/ mit anderen Gewächssen/ bevor den Me= | tallen vnd Mineralien/ befreundet/ vnd ihnen einverleibt sey: So wol auch/ Wie Er | mit des Himmels/ der Sieben Planeten/ Zwölff Zeichen/ vnd anderer Sternen/ Einfluss/ seine Färb/ | Tugend vnd Wirk- ung/ durch wahre Ideam, oder anverleibte Gleich- heit/ Oberer vnd | Baderer Naturen habe/ vnd

bey dem Menschen vollbringt: Auch wie Er | auff Chymische weise zu der Arzney zu praepariren sey. | Dergleichen Beschreibung vnd Erkantnus vorher niemals an | Tag kommen. Itzund aber/ zu Ver- ständigung aller Warheit/ | Durch | Wilhelm Eo Newhausen/ H.R. Authorn/ | an Tag gegeben. | [ornament] | Gedruckt im Jahr 1621.

3 parts in one volume. 4<sup>o</sup>: )(2 A-V<sup>4</sup> X<sup>2</sup>; 84ℓ.; [4], [1]-164 p. PAGE SIZE: 190 x 150 mm.

CONTENTS: [2 pgs], Title page, verso woodcuts.; [1 pg], Explanation.; [1 pg], Contents.; [1]-66, Text part one.; [67], Title page, part two.; [68], Contents.; 69-151, Text part two.; [152], Title page, part three.; [153], Contents.; [154]-164, Text.

VERY RARE. In this derivative work the author describes the magical properties of various gemstones, treating in the first portion the origin of gems, their general virtues, mythic lore, supposed magical powers, colors, and compositions. The second part in 37 chapters describes individual stones from diamonds onwards, emphasizing magical properties and medical uses. Following Discoidrides the final section describes the manufacturer of medicinal preparations that includes gemstone ingredients and their application to patients. The work is a repetition of older material with little if any new perspectives.

VD17 gives the place of publication as Frankfurt but questions that the author was Neuheuser.

REFERENCES: Bircher: A-5291. • BL: [1033.h.10.(4.)]. • BM/STC German: p. N-146. • CBN: 123, col. 799. • Gatterer, *Mineralogischen Literatur*, 1798-9: 2, 16. • LKG: XVI 201. • NUC. • Sinkankas, *Gemology Bibliography*, 1993: no. 4735 ["excessively rare"]. • VD17: 23:254184H.

**NEUMANN, Franz Ernst.** (BORN: Joachimstal, Brandenburg, Germany, 11 September 1798; DIED: Königsberg, Germany??, 23 May 1895) *German crystallographer.*

REFERENCES: ADB: 52, 680. • Krollmann, C.A.C., ed., *Altpreuussische Biographie*. Herausgegeben im Auftrage der Historischen Kommission für Ost- und Westpreussische Landesforschung. Königsberg, Gräfe und Unzer, 1936-44. Vols 1-2, fasc. 3. [Biographical dictionary of deceased Prussians.]. • Barr, *Index to Biographical Fragments*, 1973: 189. • DBA: I 893, 322; 893, 325-326; II 944, 182-191. • DSB: 10, 26-9. • *Encyclopaedia Britannica*, 11th edition. • *ISIS*, 1913-65: 2, 219. • Poggendorff: 2, col. 275. • Sarjeant, *Geologists*, 1980: 3, 1784. • WBI. • *World Who's Who in Science*: 1248.

**3511. — German, 1823.**

Beiträge | zur | Krystallonomie. | [tapered rule] | Von | F.E. Neumann. | [rule] | Erstes Heft. | Mit 12 Tafeln in Steindruck. | [rule] | Berlin und Posen. | Bei Ernst Siegfried Mittler. | 1823.

8<sup>o</sup>: 152 p., 12 plates, illus.

RARE. A pioneering work that applied for the first time stereographic, gnomonic, clinographic, and linear projection techniques to crystallographical problems. The importance of the work apparently escaped contemporary scientists, however, and only the first part was published. Neumann's ideas were later developed by WILLIAM H. MILLER in Cambridge in

## NICHOLSON

1839, who successfully applied the technique to create his "Miller Indices," whose work was later developed by AXEL GADOLIN in his studies of symmetry.

**Another edition, 1914:** Carl Neumann, ed., *Franz Neumanns Beiträge zur Krystallonomie aus den Jahren 1823 und 1826. Ein Versuch, den wesentlichen Inhalt dieser vor fast 100 Jahren erschienenen fundamentalen Schriften in übersichtlicher und lückenloser Weise darzustellen.* 4°: xx, 195-448 p., 66 illus., 22 plates. [Published as: *Abhandl. d. physikal. Kl. d. Kgl. Sächs. Gesell. d. Wissenschaften*, 33 (1914), no. 3.]

REFERENCES: Burckhardt, *Symmetrie der Kristalle*, 1988: p. 58-64. • Fabian, E., *Die Entdeckung der Kristalle: der historische Weg der Kristallforschung zur Wissenschaft*, Leipzig, Deutscher Verlag für Grundstoffindustrie, 1986. 193 p., illus., ports. [History of crystallography; ISBN: 3342001089]: p. 169-170. • Lima-de-Faria, *Time-Maps of Crystallography*, 1990: p. 28.

**NEVILL, William.** *English.*

**3512. — English, 1872** [Collection catalog].

Descriptive Catalogue of Minerals, being the Collection of W. Nevill ... 1872. London, 1872.

4°: 175 p. VERY SCARCE.

REFERENCES: BMC: 3, 1417.

**3513. — English, 1872** [Collection catalog].

Catalogue of Meteorites, being the collection of W. Nevill ... Godalming, Surrey. [London:] 1872.

8°: 4 p. VERY SCARCE.

REFERENCES: BMC: 3, 1417.

**NEW YORK. Academy of Mount Saint Vincent.**

**3514. — English, 1878** [Collection catalog].

Catalogue of the collection of minerals. New York, 1878.

8°: 42 p. VERY SCARCE.

REFERENCES: NUC.

**NEWMAN, John.**

**3515. — English, 1817.**

Description of a new blowpipe, with cautions and Instructions for its use, when containing a mixed atmosphere of explosive gases. [London:] 1817.

8°: 8 p.

VERY SCARCE. "The account of the author's invention of a blowpipe, which formed the basis of Goldworthy's [?!] invention in 1823 of the oxy-hydrogen blowpipe." (Sotheran and Zeitlinger)

REFERENCES: Zeitlinger & Sotheran, *Bibliotheca Chemico*, 1921-52: no. 887, no. 921.

**NICHOLSON, William.** (BORN: London, England, 1753; DIED: Bloomsbury, England, 21 May 1815) *English chemist & physicist.*

From 1769 to 1776, Nicholson sailed under East India Company, becoming financially secure in the process. By 1780 he had settled in London, where he became engaged in various scientific studies, translated books from the French, and in April 1797 issued the first number of his popular *Journal*, the first scientific periodical published in England.

REFERENCES: Allibone, *Dictionary of English Literature*, 1859-71. • Barr, E. Scott, "Anniversaries in 1965 of interest to physicists," *American Journal of Physics*, 33 (1965), 76-91 [79-81, portrait]. • BBA: I 817, 84-96. • DNB: 14, 473-5. •



NICHOLSON (c1812)

DSB: 10, 107-9. • Waller, *Dictionary of Universal Biography*, 1857-63. • Watt, *Bibliotheca Britannica*, 1824. • WBI.

**3516. — English, 1795** [First edition].

A | Dictionary | of | Chemistry, | Exhibiting the present State of the Theory and Practice of that Science, its | Application to Natural Philosophy, the Processes of Manufactures, | Metallurgy, and numerous other Arts dependant on the Properties and | Habitues of Bodies, in the Mineral, Vegetable, and Animal Kingdoms. | With a | considerable number of tables, | Expressing the Elective Attractions, Specific Gravities, Comparative Heats, Component | Parts, Combinations, and other Affections of the Objects of Chemical Research. | Illustrated with engravings. | [double rule] By William Nicholson. | [double rule] In two volumes. | Vol. I. [-II.] | [rule] London: | Printed for G.G. and J. Robinson, Paternoster-Row. | M.DCC.XCV.

2 vols. [VOL 1] 4°:  $\pi^1$  A-4D<sup>4</sup> (J2 signed); 292 $\ell$ .; [i]-viii, [1]-576 p. (A-Ore). [VOL 2] 4°:  $\pi^1$  4E-7D<sup>4</sup> 7E<sup>2</sup>; 279 $\ell$ .; [2], 577-1132 p., 4 plates (unsigned, of furnaces and apparatus, and the chemical signs). Page 798 as '778'.

CONTENTS: [Vol 1] [i-ii], Title page, verso blank.; [iii]-vii, "Preface."; viii, "Enumeration of the Tables contained in the present Work."; [1]-576, Text.

[Vol 2] [2 pgs], Title page, verso blank.; 577-1072, Text.; 1073-1095, "Appendix."; [1096], Blank.; 1097-1110, "Additions."; [1111], "Errata" and "To the Binder."; [1112], Blank.; [1113]-1116, "Index of Names."; [1117]-1132, "Index of Things."

VERY SCARCE. This is the first appearance of a useful chemical dictionnary that incorporated information about mineralogy. It was written with preferential treatment given to the new chemistry, but phlogistic ideas are also presented. Nicholson

produced another edition in 1808 and then the work was continued on by Ure in his dictionary [which see].

REFERENCES: *Annals de Chimie*: 22 (1797), 105 [review].  
 • BL: [44.h.4]. • Bolton, *Bibliography of Chemistry*, 1893: 70.  
 • *Catalog of the Edgar Fahs Smith Collection*: p. 347. • Cole, *Chemical Literature*, 1988: no. 974. • Edelstein, *Catalog of the History of Chemistry*, 1981: 1703. • Neu, *Chemical, Medical & Pharmaceutical Books*, 1965: no. 2947. • NLM 18th Century Books (Blake): 324. • Partington, *History of Chemistry*, 1961-70: 4, 19-20, 32. • Roller & Goodman, *Catalogue*, 1976: 2, 243.

**3517. 2nd edition, 1808:** A | Dictionary | of | Practical and Theoretical | Chemistry, | with its application to the | Arts and Manufactures, | and to the | Explanation of the Phenomena of Nature: | including throughout | the latest discoveries, and the present state of | knowledge on those subjects. | [double rule] | With plates and tables. | [rule] | By William Nicholson. | [rule] | Printed for Richard Phillips, No. 6, Bridge-street. | [rule] | 1808.

8°:  $\pi^2$  B-3F8; 410 $\ell$ .; [820] p., 13 plates. No pagination.

CONTENTS:  $\pi 1$ , Title page, verso "Richard Taylor and Co., Printers, Shoe Lane.";  $\pi 2r$ , "Advertisement.";  $\pi 2v$ , Blank.; B1r-3E7v, Text.; 3E8r, Sectional title page, "[double rule] | Appendix | [double rule]."; 3E8v, "Contents of the Appendix."; 3F1r-3F8r, Text of appendix.; 3F8v, Tables.

VERY SCARCE. Although this would normally be called a second edition, it is not so labeled on the title page. In fact, this was essentially a new book, extensively rewritten and enlarged to bring the text up to date. Nicholson has drawn heavily on the *Chimie Appliquée aux Arts* of the French chemist, Jean-Antoine Chaptal [1756-1832], which Nicholson had translated into English in 1807. The Appendix contains various tables and reproduces Davy's Bakerian Lecture of November 19, 1807 on the decomposition of the fixed alkalis by electricity. After Nicholson's death, ANDREW URE was engaged by the publisher to write a new chemical dictionary that went through translations and many editions during the 19th century [which see].

REFERENCES: BL: [1143.i.34]. • Bolton, *Bibliography of Chemistry*, 1893: 70. • Brock, *History of Chemistry*, 1993: p. 273. • *Catalog of the Edgar Fahs Smith Collection*: p. 347. • Cole, *Chemical Literature*, 1988: no. 975. • Partington, *History of Chemistry*, 1961-70: 4, 20. • Roller & Goodman, *Catalogue*, 1976: 2, 280.

Dictionary of Chemistry, on the Basis of Mr Nicholson's ... (London, 1821, and other editions).

See: Ure, Andrew.

**NICOL, James.** (BORN: Near Innerleithen, Scotland, 12 August 1810; DIED: London, England, 8 April 1879) *Scottish geologist & mineralogist.*

Nicol educated at the Universities of Edinburgh, Bonn and Berlin. He became associated in 1841 with Queen's College, Cork, Ireland, being appointed professor of geology in 1849. Then in 1853, he became professor of natural history at the University of Aberdeen, where he remained until 1878. Nicol was elected a Fellow of the Geological Society of London and Royal Society of Edinburgh. His research included important geological studies of Tweed and the Scottish uplands.

REFERENCES: Barr, *Index to Biographical Fragments*, 1973: 191. • BBA: I 817, 178-180. • Boase, *Modern English Biography*, 1892-1921. • Cleavelly, *World Palaeontological Collections*, 1983: 215. • DNB: 14, 483-4. • *Encyclopaedia Britannica*, 11th edition. • Lambrecht & Quenstedt, *Catalogus*, 1938: 313. • Sarjeant, *Geologists*, 1980: 3, 1789 & Suppl. 2 (1995), 2, 935. • WBI. • *World Who's Who in Science*: 1255.

**3518. — English, 1849** [First edition].

Manual | of | Mineralogy: | or the | Natural History | of the | Mineral Kingdom, | containing | a General Introduction to the Science, and Descriptions of | the Separate Species, including the More Recent | Discoveries and Chemical Analysis. | By | James Nicol, F.R.S.E., F.G.S. | Assistant Secretary of the Geological Society. | Edinburgh: | Adam and Charles Black, North Bridge; | Longman, Brown, Green, and Longmans, London. | MDCCCXLIX.

8°: [i]-xxiv, [1]-576 p., 259 illus. (mostly of crystals). Pressed cloth, geometric design on covers and spine. PAGE SIZE: 190 x 125 mm.

CONTENTS: [i-ii], Title page, verso blank.; [iii]-v, "Preface."—dated London 20th March 1849.; [vi], "List of Works on Mineralogy."; [vii]-x, "Contents."; [xi]-xxiv, "Tabular View of the Arrangement of Minerals, and their more important characters, intended to facilitate the discovery of the names of species."; [1]-4, "Introduction."; 4-107, "Part I. Terminology."; [108], Blank.; [109]-525, "Part II. Description of the Mineral Species."; [526], "Appendix."; [527]-566, "Chemical Arrangement of Minerals, according to the principles of Berzelius, by C.F. Rammelsberg ..."; [567]-576, "Index of Simple Minerals."—page 576, colophon, "Edinburgh: Printed by Robert Inches ..."

VERY SCARCE. "The *Manual of Mineralogy* is a thorough, accurate work, well worked up to the period of its publication. It is very full in analyses and sufficiently so in notices of localities. Naumann's system of crystallography and crystallographic notation are adopted throughout, and under each species, the system of crystallization with the notation of the common forms are mentioned; but few angles are given and figures are but sparingly introduced. The classification is a mixed system approaching in its general features that of Mohs" [AJS Review].

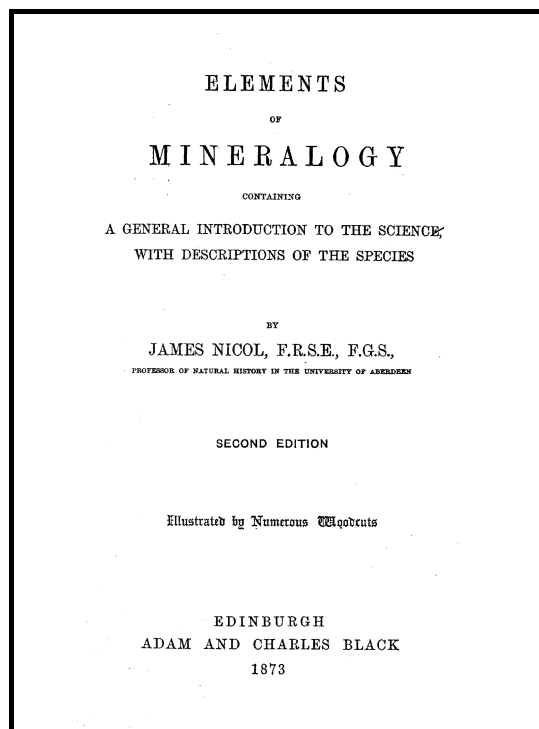
REFERENCES: *American Journal of Science*: 2nd Series, 8 (1849), 159. • BMC: 3, 1432. • Dana's 7th (Bibliography): 78. • NUC: 418, 356-7.

**3519. 2nd edition, 1858:** Elements | of | Mineralogy; | containing | a General Introduction to the Science, | with Descriptions of the Species. | Reprinted from the | Eighth Edition of the Encyclopædia Britannica. | By | James Nicol, F.R.S.E., F.G.S., | Professor of Natural History in Marischal College and | University of Aberdeen. | Illustrated by Numerous Woodcuts. | Edinburgh: | Adam and Charles Black. | MDCCCLVIII.

8°: [i]-vi, [1]-346, 8 Publisher's catalog p., 257 woodcut illus., index of simple minerals. PAGE SIZE: 173 x 104 mm.

CONTENTS: [i-ii], Title page, verso "Printed by Neill and Company, Edinburgh."; [iii]-iv, "Preface."—dated January 1, 1858.; [v]-vi, "Contents."; Errata slip tipped in between pages vi & [1]; [1]-2, Introduction.; [3]-111, "Part I. Terminology."; [112]-336, "Part II. Description of Mineral Species."; [337]-346, "Index of Simple Minerals."; [1]-8, "Educational Works published by Adam and Charles Black."

VERY SCARCE. The first portion contains basic accounts of the forms of minerals, their physical and chemical properties, and various classification schemes, while the second is a descriptive mineralogy. Nicol choose the system of Christian Samuel Weiss as his foundation.



ELEMENTS OF MINERALOGY, 1873

**3520. 3rd edition, 1873:** Elements | of | Mineralogy | containing | a General Introduction to the Science, | with Descriptions of the Species | by | James Nicol, F.R.S.E., F.G.S., | Professor of Natural History in the University of Aberdeen | Second Edition | Illustrated by Numerous Woodcuts | Edinburgh | Adam and Charles Black | 1873.  
8°:  $\pi^4$  B-Y<sup>8</sup>  $\chi^4$ : 176ℓ.; [i]-viii, [1]-336, [1]-8 p., 278 illus. PAGE SIZE: 185 x 122 mm.

CONTENTS: [i-ii], Title page, verso "Printed by R. & R. Clark, Edinburgh."; [iii]-v, "Preface."—dated July 12, 1873; [vi], Blank; [vii]-viii, "Contents."; [1]-2, "Mineralogy."; [3]-102, "Part I.—Terminology."; [103]-326, "Part II. Description of Mineral Species."; [327]-336, "Index of Simple Minerals."; [1]-8, Publisher's list with extended descriptions.

VERY SCARCE. The *Elements of Mineralogy* is a thorough, accurate work, well worked up to the period of its publication. It is very full in analyses and sufficiently so in notices of localities. Naumann's system of crystallography and crystallographic notation are adopted throughout, and under each species, the system of crystallization with the notation of the common forms are mentioned; but few angles are given and figures are but sparingly introduced. The classification is a mixed system approaching in its general features that of Mohs.

REFERENCES: BMC: 3, 1432. • NUC: 418, 356-7.

## NICOLAS, Jean.

### 3521. — French, 1693.

La verge de Jacob; ou, L'art de trouver les tresors, les sources, les limites, les metaux, les mines, les mineraux, & autres choses cachées, par l'usage du bâton fourché. Par I. N. Lyon, Hilaire Baritel, 1693.

12°: A-G<sup>12</sup>; ??ℓ.; [28], 137, [5] p., frontispiece.

RARE.

REFERENCES: Hoover Collection: no. 609.

## NICOLIS DI ROBILANT, Spirito Benedetto.

(BORN: Turin, Italy, 18 October 1722; DIED: Turin, Italy, 1 May 1801) *Italian military officer & mineralogist.*

Nicolis di Robilante spent his life in Turin where he rose to the rank of General-Lieutenant and Chief of the Geniecorps in the Piedmont Army. He was a member of the Turin Academy of Science.

REFERENCES: *Torino, Memorie della Reale Accademia delle Scienze*: 1805. • Poggendorff: 2, cols. 285-6.

### 3522. — French, 1786.

Essai Geographique suivi d'une Topographie, Souterraine, Mineralogique, et d'une Docimasie des Etates de S. M. en Terre Ferme. Memoir Academie Royale. Turin, 1786.

4°: 106 p., folded engraved map, "Carte Topographique Mineralogique des etats du Roi."

VERY SCARCE. An early and little known topographic mineralogy describing a porition of the Italian Alps. Included is a mineralogical map executed in the manner of Guettard's famous depictions, with symbols used to denote various locations where certain rocks and minerals have been observed in the Italian Alps. An early work in Italian mineralogy.

REFERENCES: BL.

## NICOLS, Thomas. *English educator.*

Nicols was professor at the University of Cambridge.

REFERENCES: BBA: I 817, 395. • DNB. • Watt, *Bibliotheca Britannica*, 1824. • WBI.

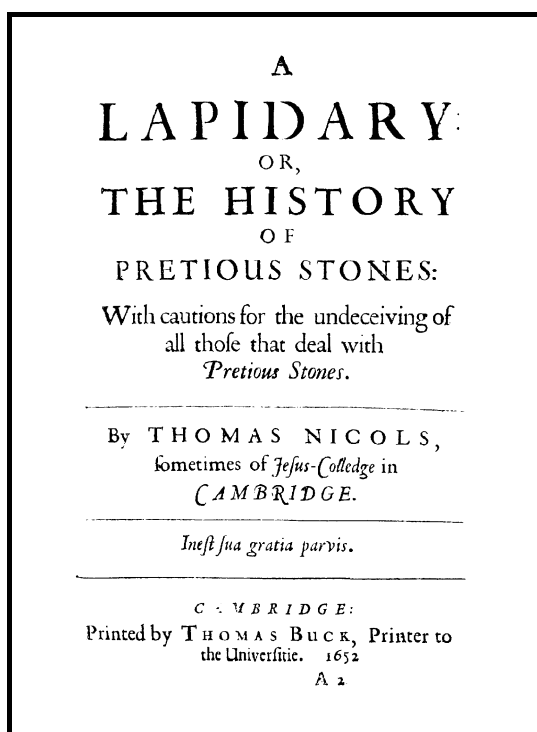
### 3523. — English, 1652 [First edition, issue A].

A | Lapidary: | Or, | The History | Of | Pretious Stones: | With cautions for the undeceiving of | all those that deal with | Pretious Stones. | [rule] | By Thomas Nicols, | sometimes of Jesus-Colledge in | Cambridge. | [rule] | Inest sua gratia parvis. | [rule] | Cambridge: | Printed by Thomas Buck, Printer to | the Universitie. 1652.

4°: A-A<sup>4</sup> B<sup>2</sup> C-Z<sup>4</sup> 2A-2I<sup>4</sup> (A1 blank); 125ℓ.; [10], 1-239, [1] p., folding gemmological key. PAGE SIZE: 184 x 135 mm.

CONTENTS: [2 pgs/=A1], Blank.; [2 pgs/=A2], Title page, verso blank.; [4 pgs/=A3r-A4v], Dedication to the Heads of the University of Cambridge, signed Tho. Nicols.; [1 pg/=B1r], "To the courteous Reader."—signed "T.N."; [2 pgs/=B1v-B2r], "The Contents of the Lapidary, | or Book of Cautions."; [1 pg/=B2v], "An Admonition or Advertise- | ment to the Reader."; [Folding table]; 1-239, Text.; [1 pg], Blank.

VERY SCARCE. The first book in English devoted to precious stones. A second state of the title page exists where the words "of Cambridge" have been removed from the imprint. Derived principally from Anselm de Boodt's *Gemmarum et Lapidum historia*, which is frequently quoted, Nicols adopts De Boodt's classification and tone in debunking the occult powers attributed to gems. Thus Nicols work, as well as De Boodt's, mark very early steps toward a scientific



A LAPIDARY, 1652

mineralogy and gemology.

The text of the treatise provides a definition of precious stones, general divisions, manner of their generation, gemstones of the ancients, the reasons for transparency, color and hardness. Sections are provided on false gems, including artificially colored crystal, how to cut, engrave and polish gems, and supernatural properties. Nichols includes lists of names by which the gems are called in various countries, locations where they are found and the relative values of different stones.

REFERENCES: BMC: 3, 1433. • Ferguson, *Bibliotheca Chemica*, 1906: 2, 138. • LKG: XVI 204. • Sinkankas, *Gemology Bibliography*, 1993: no. 4754.

**3524. Variant edition, 1653:** A | Lapidary: | Or, | The History | Of | Pretious Stones: | With cautions for the undeceiving of | all those that deal with | Pretious Stones. | [rule] | By Thomas Nicols, | sometimes of Jesus-Colledge in | Cambridge. | [rule] | Inest sua gratia parvis. | [rule] | London: | Printed for Thomas Heath, and are to be sold at | his shop neare the Piazza in Covent Garden. | Ann. Dom. 1653.

4°: A-A<sup>4</sup> B<sup>2</sup> C-Z<sup>4</sup> 2A-2I<sup>4</sup> (A1 blank); 125ℓ.; [10], 1-239, [1] p., folding gemmological key. Title page is a cancel, with the remaining quires made up of the original 1652 edition. PAGE SIZE: 184 x 135 mm.

CONTENTS: [2 pgs/=A1], Blank.; [2 pgs/=A2], Title page, verso blank.; [4 pgs/=A3r-A4v], Dedication to the Heads of the University of Cambridge, signed Tho. Nicols.; [1 pg/=B1r], "To the courteous Reader."—signed "T.N."; [2 pgs/=B1v-B2r], "The Contents of the Lapidary, | or Book of Cautions."; [1 pg/=B2v], "An Admonition or Advetise- | ment to the Reader."; [Folding table]; 1-239, Text.; [1 pg], Blank.

RARE. Not listed in the standard bibliographies, this variant issue is made up of the same quires as the original

edition with a newly set title page, made to look like the 1652 edition. It is now said to be printed in London and sold by Thomas Heath.

**3525. 1653:** Arcula Gemmea: | Or, | A Cabinet | Of | Jewels. | Discovering | The Nature, Vertue, | Value of Pretious Stones, with infallible | Rules to escape the deceit of all such as | are Adulterate and Conterfeit. | [rule] | By Thomas Nicols. | Cambridge. | [rule] | Inest sua gratia parvis. | [rule] | London | Printed for Nath. Brooke, at the Angel in Cornhill. | [rule] | MDCLIII.

4°: A-Ii<sup>4</sup> (A1 blank); 125ℓ.; [10], 1-239, [1] p., folding table. Title page is a cancel, with the remaining quires made up of the original 1652 edition.

CONTENTS: [2 pgs/=A1], Blank.; [2 pgs/=A2], Title page, verso blank.; [Folding table]; [4 pgs/=A3r-A4v], Dedication to the Heads of the University of Cambridge, signed Tho. Nicols.; [1 pg/=B1r], "To the courteous Reader."—signed "T.N."; [2 pgs/=B1v-B2r], "The Contents of the Lapidary, | or Book of Cautions."; [1 pg/=B2v], "An Admonition or Advetise- | ment to the Reader."; 1-239, Text.; [1 pg], Blank.

VERY SCARCE. This edition is identical to the first edition of 1652 with a new title page in addition to the previous one.

REFERENCES: Ferguson, *Bibliotheca Chemica*, 1906: 2, 138. • Freilich Sale Catalog: no. 414. • LKG: XVI 204. • Sinkankas, *Gemology Bibliography*, 1993: no. 4755. • Ward & Carozzi, *Geology Emerging*, 1984: no. 1656. • Wing: N-1143.

**3526. 1659:** Gemmarius Fidelius, | Or The | Faithful Lapidary, | Experimentally describing the | richest Treasures of Nature | In An | Historical Narration | Of several Natures, Vertues and | Qualities of all | Pretious Stones. | With an Accurate discovery of such as are | Adulterate and Counterfeit. | [rule] | By T.N. of J.C. in Cambridge. | [rule] | Non hic Nugarum, steriles metunter Abenæ: | Hic, hic, Gemmarum, Messis fecunda Superbit. | [rule] | London, | Printed for Henry Marsh, at the Princes Armes, at the | lower end of Chancery-lane, near the Inner Temple-gate | in Fleet-street 1659.

4°: A-Ii<sup>4</sup> (A1 blank); 125ℓ.; [10], 1-239, [1] p., folding table. Title page is a cancel, with the remaining quires made up of the original 1652 edition.

CONTENTS: [2 pgs/=A1], Blank.; [2 pgs/=A2], Title page, verso blank.; [Folding table]; [4 pgs/=A3r-A4v], Dedication to the Heads of the University of Cambridge, signed Tho. Nicols.; [1 pg/=B1r], "To the courteous Reader."—signed "T.N."; [2 pgs/=B1v-B2r], "The Contents of the Lapidary, | or Book of Cautions."; [1 pg/=B2v], "An Admonition or Advetise- | ment to the Reader."; 1-239, Text.; [1 pg], Blank.

VERY SCARCE. Duplicate to the previous editions with a new title page in addition to the original.

REFERENCES: Ferguson, *Bibliotheca Chemica*, 1906: 2, 138. • LKG: XVI 204. • Sinkankas, *Gemology Bibliography*, 1993: no. 4756.

**3527. German transl., 1675:** Edelsteinbüchlein=Büchlein/ | Oder | Beschreibung | der Edelgesteine. | Derer Gestalt/ Kräfte und | Tugenden/ Eigenschaften/ Preiß | und Werth | Samt | Beygefügtten Warnungen für Be= | trug an alle diejenigen/ so mit Edel= | Gesteinen handeln und umgehen. | Durch | Thomas Nicols | Professoren der Hohen=Schule | zu Cambridge in Engeland. | Allen Jubilirern/ Goldschmieden | und Liebhabern der Edelgesteine zu sonder= | bahren Gefallen auff begehren auß dem En= | glischen ins Teutsch übersetzt und | herausgegeben. | Von | Johann Langen | [rule] | Hamburg/ | In Verlegung Johann Naumanns und | Georg Wolffs/ Buchh. 1675.

12°: )(8 A-Q<sup>8</sup>; 136ℓ.; [16], 249, [7] p. Ornamental initials and chapter headings.

VERY SCARCE. First German edition, translated by Johann Langen.

REFERENCES: Ferguson, *Bibliotheca Chemica*, 1906: 2, 138. • LKG: XVI 205a. • Sinkankas, *Gemology Bibliography*, 1993: no. 4757. • VD17: 3:302273B.

**3528. German transl., 1734:** Thomas Nicols | Professoren der hohen Schule zu Cambridge in Engeland, | Beschreibung | der | Steine | sowohl | Edel als Gemeine | Darinnen | derer Gestalt, Kräfte, Tugenden, | Medicin/ Eigenschaften, Preiss und Werth | auf das Deutlichste gezeigt wird | Samt beygesetzten Warnungen | sich für derer Verfälschung wohl zu hüten | wegen seiner Fürtrefflichkeit | aus dem Engelsen ins Teutsche übersetzt | durch | Johann Langen. | [rule] | Culmbach, zu finden bey Nathanael Lumscher, | druckts Friederich Elais Dietzel, 1734.

8°: (8 A-X8; ??ℓ.; 16, 274, [14] index p. PAGE SIZE: 177 x 113 mm.

VERY SCARCE. Second German edition, translated by Johann Langen. Essentially a reset reprint of the translation of 1675.

REFERENCES: Ferguson, *Bibliotheca Chemica*, 1906: 2, 138. • LKG: XVI 206b. • Sinkankas, *Gemology Bibliography*, 1993: no. 4758.

**NIEREMBERG, Juan Eusebio.** (BORN: Madrid, Spain, 1595; DIED: Madrid, Spain, 1658) *Spanish Jesuit scholar & naturalist.*

Of German heritage, Nieremberg was born in Madrid and entered the Jesuit order. He became a professor of natural history at the Imperial College in Madrid. He authored many books which are known for their stylistic elegance and vivid descriptions.

REFERENCES: ABE: I 659, 27-61; II 640, 366-374. • Jöcher, *Gelehrten-Lexikon*, 1750-51. • WBI.

### 3529. — Latin, 1635.

[In red:] Ioannis Eyseii Nierembergii | Madritensis Ex Societate Iesv | [in black:] In Academia Regia Madritensi | Physiologiæ Professoris | [in red:] Historia | Natvrae, | [in black:] Maxime Peregrinae, | [in red:] Libris XVI. Distincta. | [in black:] In quivus rarissima Naturæ arcana, etiam astronomica, & | ignota Indiarum animalia, quadrupedes, aues, pisces, | reptilia, insecta, zoophyta, plantæ, metalla, lapides, & | alia mineralia, fluuiorumque & elementorum conditiones, etiam cum proprietatibus medicinalibus, descri- | buntur; nouæ & curiosissimæ quæstiones disputantur, ac | plura sacræ Scripturæ loca eruditè enodantur. | Accedunt de miris & miraculosis Naturis in Europâ Libri duo: | item de iisdem in Terrâ Hebræis promissâ Liber vnus. | [vignette] | [in red:] Antverpiæ, | [in black:] Ex Officina Plantiniana | Balthasaris Moreti. | [in red:] M. DC. XXXV.

2°: \*4 A-Z<sup>6</sup> Aa-Zz<sup>6</sup> Aaa-Ddd<sup>6</sup> Eee<sup>3</sup>; 307ℓ.; [8], 1-502, [104] p., 69 text woodcuts. Title page printed in red and black. Engraved printer's mark on title page. Printer's devices and initial letters throughout.

CONTENTS: [2 pgs], Title page, verso blank.; [5 pgs], Dedication to Gaspari de Gusman, signed "Ioannes Eusebius Nierembergii."; [1 pg], "Svmma Totivs Operis." [=Concise table of contents]; 1-386, Text.; 387-456, "... | De | Miris Et Miracvlosis | Natvris | In Evropa | ..."; 457-502, "De | Miris Et Miracvlosis | Natvris | In Terra Hebraeis Promissa | ..."; [14 pgs], "Index Capitvm

| Historiæ Natvrae | Maxime Peregrinae." [=Full table of contents]; [86 pgs/=Xxlr-Eee1v], "Index Rervm | Memorabilivm."; [2 pgs], "Approbatio."; [1 pg], Colophon, "Antverpiæ | Ex Officina Plantiniana | Balthasaris Moreti. | M. DC. XXXV."; [1 pg], Printer's device.

SCARCE. This richly illustrated volume describes in 16 books items from the natural world. It contains the earliest published account of natural history in America, and is particularly important for its descriptions of animals in North America, including Mexico, and the East Indies. Incorporated are accounts of many American plants, animals, and minerals including the best early descriptions of bison, birds of paradise and many types of snakes. The descriptions of minerals occurs in chapter XVI (pages 373-386), and includes precious stones, emerald, amber, sapphire, gold, carbuncle, various lead ores, silver, beryl, gypsum, marble, salt, coloring pigments and agents, fossils, etc. The marvelous woodcuts (54 of animals and 15 of plants) by Christoffel Jegher [see note below] vividly illustrate the text, and in several cases picture some species for the first time. Appended to the end are 2 additional treatises. The first describes the miraculous natural wonders of Europe and the second gives an account of the same phenomena in the Promised Land of the Hebrews. The descriptions of the American items appear to be based on FRANCISCO HERNANDEZ's 16 volume manuscript in the Escorial library before it was destroyed by fire in 1671.

**Christoffel Jegher.** (BORN: Antwerp, Belgium, 1590; DIED: 1652/3) *German engraver.* Wood engraver of German extraction. He attracted the attention of the Flemish painter Rubens, who employed him to execute several cuts of his own design.

REFERENCES: BL. • BMC: 3, 1434. • Brunet: 4, 76. • Nissen (ZBI): no. 2974. • NLM 17th Century Books (Krivatsy): no. 8313. • NUC: 419, 161 [NN 0260895-900]. • Palau, *Manual*, 1948-77: no. 190738. • Pritzel, *Thesaurus Literaturæ Botanicae*, 1871-3: no. 6701. • Sabin, *Dictionary*, 1868-1936: no. 55268. • Wood, *Literature of Vertebrate Zoology*, 1931: p. 493. (Jegher) *Bryan's Dictionary of Painters*, 1903-4: 3, 110. • Thieme & Becker, *Allgemeines Lexikon*, 1907-50: 18, 487-8.

**NIES, August.** (BORN: 1854; DIED: ?) *German geologist & mineralogist.*

### 3530. — German, 1884.

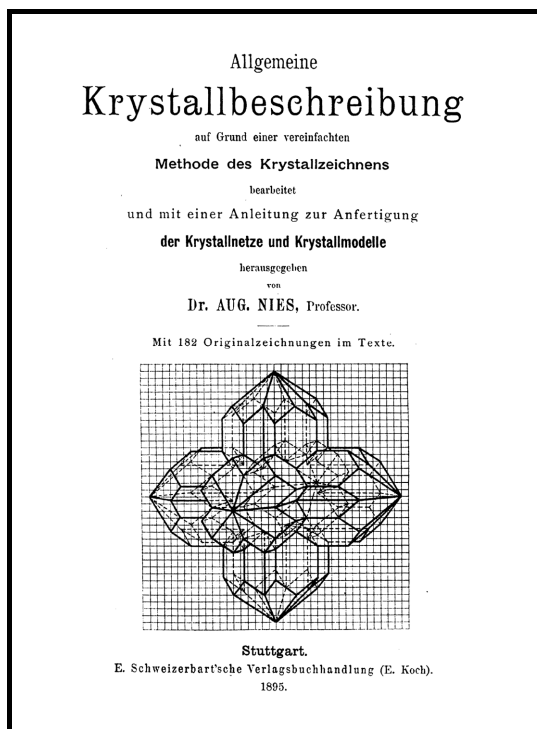
Zur | Mineralogie Des Plinius | Von | Dr. August Nies. | [ornate rule] | Beigabe zum Programm der Grossherzoglichen Realschule zu Mainz | vom Jahre 1883/84. | [tapered rule] | Mainz 1884. | Buchdruckerei von H. Prickarts. | 1884. Progr. Nr. 584.

8°: [1]-27, [1] p.

CONTENTS: [1-2], Title page, verso blank.; [3]-27, Text.; [1 pg], Blank.

RARE. A short study concerning the mineralogy contained in the ancient writing of Pliny's *Historia Naturalis* written between 60-79 C.E. of the Roman period.

REFERENCES: BL. • NUC.



ALLGEMEINE KRYSTALLBESCHREIBUNG, 1895

**3531. — German, 1895.**

Allgemeine | Krystallbeschreibung | auf  
Grund einer vereinfachten | Methode des  
Krystallzeichnens | bearbeitet | und mit einer  
Anleitung zur Anfertigung | der Krystallnetze  
und Krystallmodelle | herausgegeben | von |  
Dr. Aug. Nies, Professor. | [short rule] | Mit 182  
Originalzeichnungen im Texte. | [Diagram showing a  
phillipsite twin] | Stuttgart. | E. Schweizerbart'sche  
Verlagsbuchhandlung (E. Koch). | 1895.

8°: xv, 176 p., diagrams. SCARCE.

REFERENCES: BMC: 3, 1435. • NUC: [NN 0261321].

**3532. — German, 1905.**

Lehrbuch der Mineralogie und Geologie. 1. Teil:  
Mineralogie. 2. Teil: Gesteinslehre und Grundlagen  
zur Erdgeschichte. 2 Teile in einem Band. F.  
Lehmann Verlag, Stuttgart, 1905.

2 parts. [Part I] 8°: 216 p., Mit über 400 in den  
Text gedruckten Abb. und 20 Farbentafeln. [Part II]  
8°: 106 p.

VERY SCARCE. Co-authored with Dr. Ernst Nüll.  
REFERENCES: NUC: [NN 0261322].

**NIKITIN, Sergei Nikolaevich.** (BORN: Moscow,  
Russia, 4 February 1851; DIED: St. Petersburg, Russia,  
18 November 1909) *Russian geologist.*

Nikitin graduated from Moscow University, 1871.  
REFERENCES: *Great Soviet Encyclopedia*: 17, 575.

**3533. — Russian & French, 1886-97** [Bibliography].

Русская геологическая библиотека, издавае-  
мая под редакцією. Bibliothèque géologique de  
la Russie, rédigée par S. Nikitin. S.-Peterburg,  
Comité Géologique, 1886-97.

13 vols. [VOL 1: 1886] 8°: vii, 126 p. [256 entries].  
[VOL 2: 1887] 8°: viii, 184 p. [356 entries]. [VOL 3: 1888]  
8°: vi, 178 p. [405 entries]. [VOL 4: 1889] 8°: vi, 201 p.  
[390 entries]. [VOL 5: 1890] 8°: vii, 187 p. [410 entries].  
[VOL 6: 1891] 8°: vii, 225 p. [467 entries]. [VOL 7: 1892]  
8°: vii, 234 p. [452 entries]. [VOL 8: 1893] 8°: vi, 215 p.  
[474 entries]. [VOL 9: 1894] 8°: iv, 200 p. [429 entries].  
[VOL 10: 1895] 8°: viii, 202 p. [495 entries]. [VOL 11:  
1896] 8°: [4], 223 p. [517 entries]. [VOL 12: 1897] 8°:  
[4], 244 p. [577 entries]. [VOL 13: 1898] 8°: ?? p.

RARE. Edited by Sergei Nikolaevich Nikitin this  
publication was authorized by a special commission  
(of which Nikitin was a member) called the "Comité  
Géologique." It is an annotated bibliography that  
reviews the Russian geological publications of the  
preceding year. It is an highly important geological  
bibliography listing many important 19th century  
publications when most of the great geological  
explorations of Siberia and Belorussia were occurring.  
Each entry contains a commentary in Russian and  
French describing the book under discussion.

Each volume is classified by subject with entries  
ordered alphabetically by author. The principal  
divisions within the volumes are: Descriptive  
geology, Paleontology, Physical geology, Mineralogy,  
Petrology, Soil science, Applied Geology, and Periodical  
publications. Indexes to subjects, geographical  
locations, and authors conclude each volume.

REFERENCES: Besterman, *Bibliography of Bibliogra-  
phies*, 1965-6: col. ??; • BL; • Margerie, *Bibliographies Gé-  
ologiques*, 1896: no. 2589.

**NISHI, M.** *Japanese mineralogist.*

**3534. — English, 1891** [Collection catalog].

Catalogue of Mineralogical, Lithological and  
Paleontological Specimens in the Natural History  
Department of the Imperial Museum, &c. Tokyo,  
1891.

8°: 229 p. VERY RARE.

REFERENCES: BMC: 3, 1438.

**NIVEN, William.** (BORN: 1850; DIED: 1937) *American  
mineral dealer & museologist.*

Ended his career in Texas as the director of the  
Huston Museum of Natural History.

REFERENCES: ABA: I 1190, 180-184; II 444, 146.  
• Herringshaw's *National Library of American Biography*. •  
WBI. • *Who's Who in America, 1899-1909*.

**3535. — English, c1888** [Sale catalog].

[Contained within a ornamental single rule box:]  
Illustrated \* Catalogue | —Of— | Minerals, Cut  
Gems, Fossils, | Indian Relics, Japanese | Bronzes,  
Curios, Bra- | zilian Butterflies, | Birds' Nests, And  
| [ornament]Arizona Petrified Wood. [ornament] |



## NORDENSKIÖLD

[rule] | Price, Ten Cents. | [rule] | William Niven, |  
739 & 741 Broadway, | New York.

8°: 90 p. VERY RARE.

REFERENCES: NUC.

**NÖGGERATH, (Johann) Jacob.** (BORN: Bonn, Germany, 10 October 1788; DIED: 1877) *German geologist.*

Commissioner of mines in various Rhineland provinces, Nöggerath became professor of mineralogy at the University of Bonn, and he was later appointed director of the natural history museum.

REFERENCES: Poggendorff: 2, cols. 292-4.

Mineralogische Studien über die Gebirge am Niederrhein. Nach der Handschrift eines Privatirenden von K.W. Nose herausgegeben von J.J. Nöggerath. (Frankfurt am Mainz, 1808).

See: Nose, Karl Wilhelm.



DAS GEBIRGE, 1822

### 3536. — German, 1822-6.

Das Gebirge | in | Rheinland=Westphalen |  
nach | mineralogischem und chemischem Bezuge.  
| Herausgegeben | von | Dr. Jakob Nöggerath, |  
[...3 lines of titles and memberships...] | [rule] | Erster  
Band. | Mit sieben illustirten Steintafeln. | [tapered  
rule] | Bonn, | bei Eduard Weber | 1822.

4 vols. [VOL 1: 1822] 8°: xii, 370, [2] p. [VOL 2: 1823] 8°: x, 387, [3] p. [VOL 3: 1824] 8°: viii, 291, [1] p. [VOL 4: 1826] 8°: viii, 390, [2] p., with 22 engraved plates, of which 17 handcoloured and many folding. PAGE SIZE: 205 x 120 mm.

VERY SCARCE. The present work is Nöggerath's most important publication describing the mineralogy and geology of the mountains of the Rhineland and Westphalia and was the first and standard work on the subject. According to the first volume, annual volumes were to appear, but the series stopped after the fourth was issued. Nöggerath used all the tools at his command including chemistry to investigate the minerals, rocks, and geology of the mountains. Many

others contributed important papers to this series, these Nöggerath edited and frequently wrote notes and additions to them. The very descriptive observations are by today's standards quaint artifacts of a different age, but they are nevertheless useful for their historical perspective. The plates show hand-colored maps, geological cross sections and views.

REFERENCES: Bartels, *Geologie und Bergbau*, 1996: p. 27 & no. 106. • BMC: 3, 1440 [lacks vol. 4]. • NUC: [NN 0284077]. • Ward & Carozzi, *Geology Emerging*, 1984: no. 1659.



NILS ADOLF ERIK VON NORDENSKIÖLD

**NORDENSKIÖLD, Nils Adolf Erik von.** (BORN: Helsingfors, Finland, 18 November 1832; DIED: Stockholm, Sweden, 12 August 1901) *Finnish geographer, geologist, mineralogist & historian of cartography.*

Nordenskiöld's ancestors originally came from Sweden, but for several generations had settled in Finland. His father, NILS GUSTAV NORDENSKIÖLD, was both a mineralogist and an explorer. After applying himself especially to chemistry and mineralogy, he graduated from the University of Helsingfors in 1853, and accompanied his father on an expedition to the Urals Mountains of Russia to study the iron and copper mines at Tagilsk. In 1855, Nordenskiöld traveled to Berlin to continue his mineralogical studies. He returned to Helsingfors receiving his masters and doctorate degrees. However, differences with the Russian authorities caused him to relocate to Stockholm, where he was appointed professor and curator of the mineralogical department of the Swedish State Museum. He made many expeditions, most notably to Greenland and the arctic. In 1880, he was made a Swedish baron and commander of the Order of the Nordstjärna.

REFERENCES: *Acta Societatis Scientiarum Fennicae*: 31 (1902), 1-29 [by W. Ramsay]. • Barr, *Index to Biographical Fragments*, 1973: 192. • *Biographiskt Lexicon*. • Borgström, L.H., "Om A.E. Nordenskiöld som mineralog och om hans kosmogenetiska teori," *Terra*, no. 3 (1932), 149-53. • Cleavelly, *World Palaeontological Collections*, 1983: 216. • DSB: 10, 148-9 [by G. Kish]. • *Encyclopaedia Britannica*, 11th edition. • *Finsk Biografisk Handbok*: 2, cols. 1559-65. • *Finsk Tidskrift*: 1901, no. 2, 173-83 [by W. Ramsay]. • Forsstrand, C., *Adolf Erik Nordenskiöld och hans forskningsfärder. En minnesteckning grundad på tryckta källskrifter och personliga bägkomster*. Stockholm, Albert Bonniers Förlag, 1901. [1]-123 p., portrait, illus.

• *Geografiska Föreningens Tidskrift*: 1902, 65-74 [by H. Blomqvist]. • *Geographischer Anzeiger*: 2 (1901), 129-31 [by A.G. Nathorst]. • *Geological Magazine*: 38 (1901), no. 9, 429-32 [by F.A. Bather]. • *Geologiska Föreningens i Stockholm Förhandlingar*: 34 (1912), 45-100, portrait [by H. Sjögren]. • Hedin, S., *Adolf Erik Nordenskiöld. En levnadsbeskrivning*. Stockholm, Albert Bonniers Förlag, 1926. [8], [1]-378 p., portrait, illus., maps. [Biography of Nordenskiöld.]. • *ISIS*, 1913-65: 2, 239. • Kish, G., "Adolf Erik Nordenskiöld (1832-1901): a Scandinavian pioneer of the earth sciences," *Actes XIIIe Congress Internationale Hist. Science*, 8, (1971), 53-8. • Laitakari, *Geologische Bibliographie Finnlands*, 1934: 121-3. • Lambrecht & Quenstedt, *Catalogus*, 1938: 316. • *Mineralogical Magazine*: 13 (1902), no. 60, 191-2 [obituary]. • Poggendorff: 2, cols. 298-9 & 1432, 3, 977-8 & 4, 1081-2. • *Popular Science Monthly*: 59 (1901), 596-8. • *Proceedings of the Geological Society*, London: 58 (1902), p. lii-liiii. • Ramsay, H., *Nordenskiöld: sjöfararen*. Stockholm, Skoglund, 1950. [1]-315 p., illus., map. • Sarjeant, *Geologists*, 1980: 3, 1798-1800, Suppl. 1 (1986), 2, 661 & Suppl. 2 (1995), 2, 938-9 [other refs.]. • SBA: Scandinavian Biographical Archive: B-219, 271-339. • Schaedler, *Biographisch Handwörterbuch*, 1891: 85. • *Svenskt Biografiskt Handlexikon*: 2, 200, portrait. • *Svenskt Biografiskt Lexikon*: 27, 264-?. • WBI. • *World Who's Who in Science*: 1263. • *Zentralblatt für Mineralogie*: Jg. 1903, 161-75 & 193-210.

**3537. — Swedish, 1855** [Dissertation].

Om | Graftens och Chondroditens | kristallformer, | Akademisk afhandling | med den vidtberömda Fysisk-Mathematiska Fakultetens | vid Kejserliga Alexanders-Universitetet i Finland | tillstånd | under inseende af | Dr Adolf Edvard Arppe, | Professor i kemin, | för vinnande af | Licentiatgrad i Fysisk-Mathematiska fakulteten | till offentlig granskning framställd af | Nils Adolf Erik Nordenskiöld, | Fys.-Math. Kandidat, | i Hist.-Fil. Lärösalen den 28 Februari 1855. | p.v.t.f.m. | [ornate rule] | Helsingfors, J. C. Frenckell & Son, 1855.

8°:  $\pi^2$  [1]-54; 22 $\ell$ .; [2], [1]-42 p., one plate (crystal drawings).

CONTENTS: [2 pgs], Title-page, verso blank.; [1]-42, Text.

RARE. Nordenskiöld's dissertation on the crystallography of graphite and chondrodite. [Entry by Johan Kjellman]

REFERENCES: NUC.

**3538. — Swedish, 1855** [First edition].

Beskrifning | öfver | De I Finland Funna Mineralier | af | A. Nordenskiöld. | Licentiat. | [tapered rule] | Helsingfors, | Finska Litteratur-sällskapets tryckeri, 1855.

8°:  $\pi^5$  1-108 112; 87 $\ell$ .; [i]-x, [1]-162, [2] p. PAGE SIZE: 190 x 117 mm.

CONTENTS: [i-ii], Title page, verso "Imprimatur: S. Baranowskij."; [iii]-vi, "Inledning."; [vii]-x, "Register."; [1]-156, Text.; [157]-162, "Bihang."; [1 pg], "Rättelser."; [1 pg], Blank.

VERY SCARCE. In the introduction, Nordenskiöld writes that the advances in mineral chemistry published in Rammelsberg's *Handwörterbuch des Chemischen Theils der Mineralogie* (Berlin, 1841) has provided a

solid foundation on which a true chemical classification of mineral species can be built. For crystallography, the work of Brooke and Miller was relied on. The "Register" provides an alphabetical list of mineral species described in the text. The text describes minerals found in Finland classified according to a chemical classification.

REFERENCES: BMC: 3, 1442 [wanting]. • Dana's 7th (Bibliography): 78.

**3539. 2nd edition, 1863:** Beskrifning | öfver | de i Finland funna Mineralier | af | A.E. Nordenskiöld. | [rule] | Andra, omarbetade upplagan. | [rule] | Helsingfors, | Finska Litteratur-sällskapets tryckeri, 1863. | [short rule] | P. Th. Stolpes förlag.

8°: [4], [1]-177, [1] blank, [i]-v, [1] blank p. PAGE SIZE: 190 x 120 mm.

CONTENTS: [2 pgs], Title page, verso "Imprimatur: L. Heimbürger."; [2 pgs], "Inledning."; [1]-171, Text.; [172], Blank.; [173]-177, "Bihang."; [i]-v, "Register."; [1 pg], Blank.

VERY SCARCE. Updated edition of the author's *Beskrifning öfver de i Finland funna Mineralier* (Helsingfors, 1855). The 106 minerals are described with chemical formula, Miller indices, stöchiometry. They are arranged in a chemical system (Berzelius'?). A supplement at the end includes another 16 minerals in the same method. At the end is an index of mineral names.

REFERENCES: Dana's 7th (Bibliography): 78.



NILS GUSTAF VON NORDENSKIÖLD

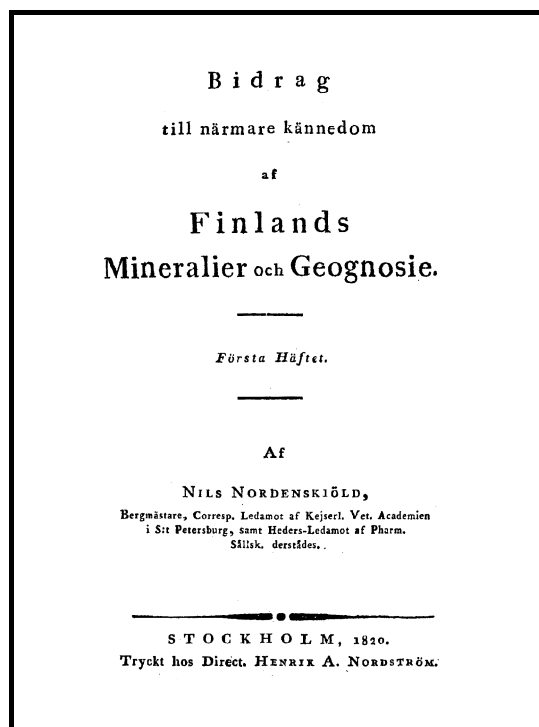
**NORDENSKIÖLD, Nils Gustaf von.** (BORN: Frugård, Mänzälä, Finland, 12 October 1792; DIED: Frugård, Mänzälä, Finland, 1866) *Finnish mineralogist*.

Nordenskiöld was the father of NILS ADOLF ERIK VON NORDENSKIÖLD. He studied chemistry and mineralogy at Åbo Academy under J. GADOLIN. Through the patronage of Count Fabien Steinheil, he was given the opportunity to study abroad for a long period. Upon his return in 1817, Nordenskiöld was appointed inspector of mines in Finland, followed by a post as superintendent of the Mining Board in Helsingfors in 1823. He was elected a member of the Academy of Sciences at Helsingfors.

REFERENCES: *Annual Register*. • *Biografiskt Lexicon*. • Cleavelly, *World Paleontological Collections*, 1983: 216. • *Finsk Biografisk Handbok*: 2, cols. 1556-9. • Hausen, *History*

## NORTON

of *Mineralogy in Finland*, 1968: 16-8, portrait. • *ISIS*, 1913-65: 2, 239. • Laitakari, *Geologische Bibliographie Finnlands*, 1934: 123-5. • Lambrecht & Quenstedt, *Catalogus*, 1938: 316. • *Oma Maa*, 1907-12. • Poggendorff: 2, col. 298 & 3, 977. • Sarjeant, *Geologists*, 1980: 3, 1800-1 [other refs.]. • SBA: Scandinavian Biographical Archive: B-219, 349-368. • *Svenskt Biografiskt Handlexikon*: 2, 200-2, portrait. • *Svenskt Biografiskt Lexikon*. • WBI.



FINLANDS MINERALIER OCH GEOGNOSIE, 1820

### 3540. — Swedish, 1820.

Bidrag | till närmare kännedom | af | Finlands | Mineralier och Geognosie. | [rule] | Första Häftet. | [rule] | Af | Nils Nordenskiöld, | Bergmästare, Corresp. Ledamot af Kejsersl. Vet. Academien | i S:t Petersburg, samt Heders-Ledamot af Pharm. | Sällsk. derstädes. | [ornate rule] | Stockholm, 1820. | Tryckt hos Direct. Henrik A. Nordström.

8°:  $\pi^8$  A-E<sup>8</sup> F<sup>4</sup> G<sup>4</sup>; 56 $\ell$ .; [8], [1]-103, [1] p., 4 folding plates (one colored). PAGE SIZE: 202 x 123 mm.

CONTENTS: [2 pgs], Title page, verso blank.; [1 pg], Dedication to Comte Nicolas de Romanzoff.; [1 pg], Blank.; [2 pgs], "Monseigneur!"—signed N. Nordenskiöld.; [1 pg], "Innehåll." (=contents).; [1 pg], Blank.; [1]-103, Text.; [At end], 4 folding plates (one colored).

PLATES: **REDO THIS** These consist of: I. Colored geological cross section of Kimitto Tantalitbrott (202 x 230 mm.). II. Crystal drawings and 3 figures of a III. IV.

VERY SCARCE. No more published. The first scientific handbook of Finnish minerals, in which the author describes a large number of species previously unknown in Finland. Of these, twenty were new to

science. In addition, several species have their chemical composition reported as well, no doubt the influence of Berzelius, with whom Nordenskiöld had studied under for a time.

REFERENCES: BMC: 3, 1443. • Dana's 7th (Bibliography): 78. • Hausen, *History of Mineralogy in Finland*, 1968: 17. • NUC: 421, 252.

### 3541. — Swedish, 1827 [First edition].

Försök | till | framställning | af | kemiska mineralsystemet, | med afseende på öfverensstämelsen | emellan | fossiliernas kemiska sammansättning | och | deras kristallform, | af | Nils Nordenskiöld | [...3 lines of titles and memberships...] | [rule] | Stockholm, | tryckt hos P.A. Norstedt & söner, 1827.

4°:  $\pi^3$  1-3<sup>4</sup>  $\chi^2$ ; 17 $\ell$ .; [2], [i]-iv, [1]-25, [3] p.

CONTENTS: [2 pgs], Title page, verso blank.; [i]-iv, "Företal" (=forword).; [1]-25, "Enkla kroppar" (=systematic tabular overview of the mineral system with one page of comments).; [1 pg], Blank.; [1 pg], Errata.; [1 pg], Blank.

RARE. In this *Proposal for a Chemical System of Mineralogy*, Nordenskiöld' unites the chemical theories of Berzelius with his own analytical work with which he was then engaged. [Entry by Johan Kjellman]

REFERENCES: NUC. • SWIM.

3542. 2nd edition, 1833: Försök till framställning af kemiska mineral-systemet. Andra upplagan, Jemte Beskrifning af de i Finland funna Mineralier. Första häftet. Helsingfors, 1833.

8°: [2], xxii, 100 p., one folding table.

VERY SCARCE. No more published.

REFERENCES: Poggendorff: 2, col. 298.

**NORTON, Samuel.** (BORN: 1548; DIED: 1604?) *English alchemist.*

REFERENCES: BBA: I 822, 443-444. • WBI.

### 3543. — Latin, 1630.

Metamorphosis lapidum ignobilium in gemmas quasdam pretiosas; seu, Modus transformandi perlas parvas, et minutulas, in magnas & nobiles; ac etiam construendi carbunculos artificiales, aliosque lapides pretiosos, naturalibus praestantiores ... nunc vero editus diligentia Edmundi Deani ... Cui accessit modus componendi electrum artificiale ... cum indicatione electri naturalis & metallici, veteribus prorsus incogniti ... Francofurti, Typis Caspari Röteli, impensis Guilielmi Fitzeri, 1630.

4°: 12 p., illus. Co-author, Edmund Deane.

RARE.

REFERENCES: Wellcome Catalog (Books): 1, no. 4573.

**NOSE, Karl Wilhelm.** (BORN: 1753; DIED: 22 June 1835) *German physician.*

REFERENCES: ADB. • DBA: I 905, 21-28; II 956, 89-91.

• Hamberger & Meusel, *Gelehrte Deutschland*, 1796-1834. • Hirsch, *Biographisches Lexikon*, 1884-8. • Poggendorff: 2, cols. 301-2. • WBI.



OROGRAPHISCHE BRIEFE, 1789

## 3544. — German, 1789-91.

Orographische Briefe | über das | Siebengebirge | und die | benachbarten | zum Theil | vulkanischen Gegenden | beyder | Ufer des Nieder=Rheins | an | Herrn Joseph Paul Edeln von Cobres | [...2 lines of titles and memberships...] | von | Carl Wilhelm Nose | [...4 lines of titles and memberships...] | Mit Kupfern | [rule] | Erster Theil | Oestliche Rhein=Seite | [double rule] | Frankfurt am Mayn 1789 | bey Gebhard und Körber.

3 parts. [Part 1: 1789] 4°: A-L<sup>4</sup> M<sup>3</sup>; 139ℓ.; [1]-278 p. [Part 2: 1790] 4°:  $\pi^1$  A-K<sup>4</sup> L<sup>3</sup>; 128ℓ.; [2], [1]-438, [16] p. [Part 3: 1791] 4°:  $\pi^1$  A-L<sup>4</sup>; 129ℓ.; [2], [1]-204, [52] p. One large folding map and 5 folding plates.

CONTENTS: [Part 1] [1-2], Half title page, "Niederheimisch Reise | Erster Theil," verso blank.; [3-4], Title page, verso blank.; [5]-267, Text.; 268-271, "Nachtrag."; 272-276, "Erklärung der Kupfer=Tafeln."; 277-278, "Ueberschriften."

[Part 2] [2 pgs], Half title page, "Niederheimisch Reise | Zweiter Theil," verso blank.; [1-2], Title page, verso blank.; [3]-438, Text.; [2 pgs], "Erklärung der Kupfer=Tafeln."; [2 pgs], "Ueberschriften."; [10 pgs], "Verzeichniß."; [2 pgs], "Berichtigungen | des erstern Theils."

[Part 3] [2 pgs], Half title page, "Westphälische Reise," verso blank.; [1-2], Title page, verso blank.; [3]-73, Text.; [74], "Ueberschriften | der | Briefe."; [75], "Register | zu die | Niederheimisch und Westphälisch Reisen | nebst | Vorbericht | und | literarischen Nachträgen."; [76], Blank.; [77]-200, "Vorbericht | und | literarische Nachträge."; 201-204, "Beylage."; [11 pgs], "Register."; [10 pgs], "Verzeichniß | der Berge Thäler und Gewässer."; [31 pgs], "Sachen=Verzeichniß." [=subject index].

VERY SCARCE. These letters concerning the mineralogy, geology and mining of the Siebenbergen region of Hungary were written by Nose to Paul von Corbes. They recount Nose's observations as he traversed the area. Edited by K.W. Nose.

Johann Phillip Becher also was an author on this

REFERENCES: BL. • LKG: XIV 281 & XIV 325.

## 3545. — German, 1791.

Verzeichnisse einer Sammlung Niederrheinischer und Wertphalischer Gebirgsarten, nach dem orographischen Briefen des Dr. Nose geordnet. Frankfurt am Mainz, 1791.

8°; VERY SCARCE.

REFERENCES: LKG: XIV 282a.

## 3546. — German, 1792.

Beyträge zu den Vorstellungsarten über vulkanische Gegenstände von Karl Wilhelm Nose ... Frankfurt am Mayn, bey Gebhard und Körber, 1792.

8vo. VERY SCARCE.

REFERENCES: LKG: XIII 281.

## 3547. — German, 1793.

Über einige Ereignisse in der mineralogischen Literatur unserer Tage. Frankfurt am Mainz, Gebhard & Körber, 1793.

8°: 56 p. VERY SCARCE.

REFERENCES: LKG: VI 109.

## 3548. — German, 1794.

Tafeln über die Bildung und Umbildung des Basalts und der Laven. Frankfurt am Mainz, 1794.

8°; VERY SCARCE.

REFERENCES: LKG: XVI 120.

## 3549. — German, 1795.

Sammlung einiger Schriften über vulkanische Gegenstände und den Basalt aus dem Franz. und Danisch. nebst 4 kupfern. Mit eignen Abhandlungen und einer Tabelle herausgegeben von K.E. Nose. Frankfurt am Mainz, 1795.

8°; VERY SCARCE.

REFERENCES: LKG: XIII 282a.

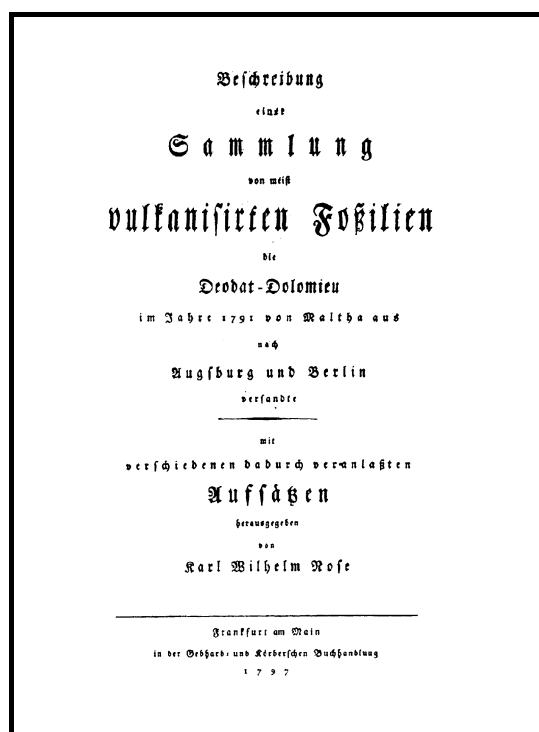
## 3550. — German, 1797 [Collection catalog].

Beschreibung | einer | Sammlung | von meist | vulkanisirten Foßilien | die | Deodat-Dolomieu | im Jahre 1791 von Maltha aus | nach | Augsburg und Berlin | verstandte | [tapered rule] | mit | verschiedenen dadurch veranlaßten | Aufsätzen | herausgegeben | von | Karl Wilhelm Nose | [rule] | Frankfurt am Main | in der Gebhard= und Körberschen Buchhandlung | 1797.

2°:  $\pi^1$  A-X<sup>2</sup> Y<sup>1</sup>; 42ℓ.; [2], [1]-82 p.

CONTENTS: [2 pgs], Title page, verso blank.; [1]-82, Text.

RARE. Edited by Nose this work was translated and published from Dolomieu's original 1791 manuscript. The text is divided into six sections, and it includes a description of a collection of mostly volcanic minerals obtained by Dolomieu in Malta. Included are discussions of the external characters, chemical makeup, with citations to the pertinent literature. A discussion of the chemical make up of "Bimsteine" (=pumice?) concludes the work.



BESCHREIBUNG EINER SAMMLUNG, 1797

REFERENCES: Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 270. • *Göttingische gelehrte Anzeigen*: 1797, 1538. • LKG: XIII 283b & XV 46.

**3551. — German, 1808.**

Mineralogische Studien über die Gebirge am Niederrhein. Nach der Handschrift eines Privatirenden von K.W. Nose herausgegeben von Johann Jacob Nöggerath. Frankfurt am Mainz, 1808. 8°: 276 p.

VERY SCARCE. Edited by JOHANN JACOB NÖGGERATH from Nose's manuscript notes. This is a mineralogical description of the mountains found in Niederhein. It is based upon the theories and ideas put forth by Werner at the Freiburger Bergakademie.

REFERENCES: BMC: 3, 1440. • LKG: XIV 283b. • NUC: [NN0284081].

**NOUVEAU DICTIONNAIRE.****3552. — French, 1770.**

Nouveau | Dictionnaire | Raisonné | De Physique | Et Des | Sciences Naturelles, | Contenant | L'Histoire Générale | Des Animaux, des Végétaux, des Minéraux, | & de tous les Phénomènes de la Nature; | Avec | L'Histoire Des Sciences | Physico-Mathématiques, | Et de tout ce qui a rapport à la Physique & à | l'Histoire Naturelle. | Par une Société de Physiciens. | Tome Premier. | [ornament] | A Amsterdam, | Chez Marc-Michel Rey, Libraire.

[ornate rule] | M. DCC. LXX.

2 vols. [VOL 1] 8°: 558 p. (A-Gro). [VOL 2] 8°: 496 p. (Ha-Z). PAGE SIZE: 205 x 128 mm.

RARE. A standard dictionary of physical science and natural history, including general information on mathematics, physics, animals, plants, minerals, and other phenomena of nature. It was prepared by the Society of Physicians.

REFERENCES: BL. • NUC.

**NOVA SCOTIA.****3553. — English, 1903** [Collection catalog].

Provincial Exhibition, 1903 ... Economic minerals of Nova Scotia. Catalogue and description. Halifax, The Commissioner of Public Works and Mines, King's printer, 1903.

8°: Cover-title, [3]-39 p. Catalog of economic minerals displayed at the Department of Public Works and Mines, Provincial Exhibition, 1903 in Halifax, Nova Scotia. RARE.

REFERENCES: NUC.

**NÜNNING, Jost Hermann.** (BORN: 1675; DIED: 1753) *German lawyer.*

REFERENCES: ADB. • DBA: I 906, 110-112; 906, 392-417; 1431, 217; II 958, 54. • Jöcher, *Gelehrten-Lexikon*, 1750-51. • Meusel, *Verstorbenen Deutschen Schriftsteller*, 1802-16. • WBI.

**3554. — Latin, 1746-54.**

Commercii Litterarii Dissertationes Epistolicae Historico-Physico-Curiosae... Jodoci Hermanni Nünningii et Johannis Henrici Cohausen, de Glosopetris, Lapidibus Cordiformibus, Cornu Bisontis Petrefacto, Cornu Ammonis et Osse Femoris Elephantini, cum Utriusque Historica Bibliographia et Praefatione Epicritica Salentini Ernesti Eugenii Cohausen ... Francofurti ad Mainz, apud J.B. Andree et H. Hort, 1746-54.

3 vols. [VOL 1: 1746] 8°: [30], 280 p. [VOL 2: 1750] 8°: ?? p. [VOL 3: 1754] 8°: ?? p. The title of vols. 2 and 3 read: Commercii litterarii curiosi dissertationes epistolicae Pyladis et Orestis ... Jodoci Hermanni Nünningii et Johannis Henrici Cohausen litterarum amoebarum.

RARE. Co-authored with Johann Heinrich Cohausen [see note below]. This collection of letters and dissertations contains several on palaeontological subjects, such as fossilized shark teeth and the bones of extinct mammoths.

**Johann Heinrich Cohausen.** (BORN: Hildesheim, Germany, 1665; DIED: Muenster, Germany, 13 July 1750) *German physician & author.*

[ BIOGRAPHY NEEDED ]

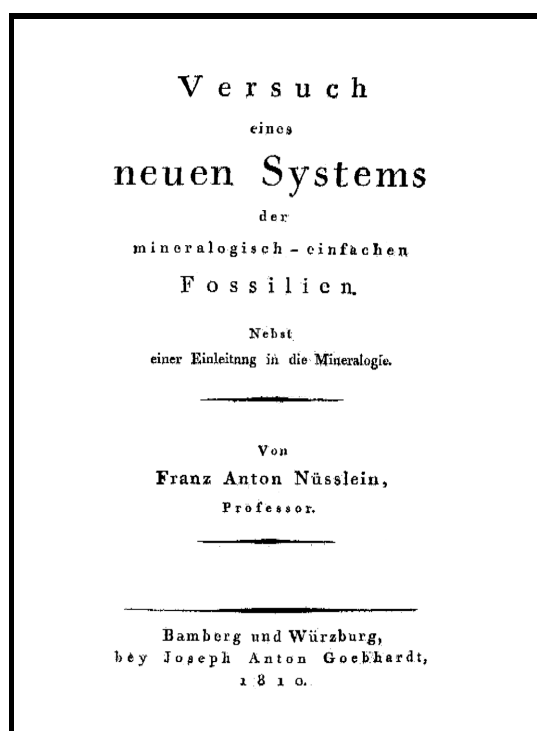
REFERENCES: BL: [95.c.25.]. • BMC: 5, 1455 [wanting vols. 2 and 3]. • *Katalog Bergakademie Freiberg*, 1879: p. 487 [XVI. 92.]. • LKG: XVII 88. (Cohausen) ADB. • DBA: I 197, 21-37. • Hamberger & Meusel, *Gelehrte Teutschland*, 1796-1834. • Hirsch, *Biographisches Lexikon*, 1884-8. • Jöcher, *Gelehrten-Lexikon*, 1750-51. • Meusel,

Verstorbenen Deutschen Schriftsteller, 1802-16. • Poggendorff: 1, col. 460. • WBI.

**NÜSSLEIN, Franz Anton.** (BORN: Bamberg, Germany, 7 May 1776; DIED: Dillingen, Germany, 22 March 1832) *German theologian & educator.*

Nüsslein was appointed successively at the Gymnasium of Bamberg, Instructor of Grammar (1802), Philosophy (1803) and Natural History (1804); professor of philosophy at the Lyceum of Amberg, 1809–11; Dillingen, 1811–16, Aschaffenberg, 1816–17, ending finally at Dillingen, where he was appointed director, 1821.

REFERENCES: ADB. • DBA: I 906, 222-228; II 957, 432-434. • Hamberger & Meusel, *Gelehrte Deutschland*, 1796-1834. • Poggendorff: 2, cols. 303-4. • WBI.



VERSUCH, 1810

**3555. — German, 1810.**

Versuch | eines | neuen Systems | der | mineralogisch-einfachen | Fossilien. | Nebst | einer Einleitung in die Mineralogie. | [tapered rule] | Von | Franz Anton Nüsslein, | Professor. | [tapered rule] | [tapered rule] | Bamberg und Würzburg, | bey Joseph Anton Goebhardt, | 1810.

8°: ?? p. A study on Nüsslein's new system of mineralogy, that also acts as an introduction to the science. RARE.

REFERENCES: BL: [973.a.21.(3.)]. • *Katalog Bergakademie Freiberg*, 1879: p. 486 [VI. 325.]. • LKG: XII 182.

**3556. — German, 1812.**

Schematische | Darstellung | der | Mineralkörper | nach ihren | Klassen, Ordnungen, Geschlechtern | und | Familien. | [tapered rule] | Von | Franz Anton Nüsslein. | [tapered rule] | Nürnberg, | bei Johann Leonhard Schrag. | 1812.

8°: 72 p.

RARE. This small work should not be considered more than as a study of the complete mineral kingdom from its various parts and gradations by the one rule of "Trias" according to "construieren".—*Leonard's Taschenbuch*

REFERENCES: BL: [972.g.35.(2.)]. • *Leonard's Taschenbuch*: 7 (1813), p. 548. • LKG: XII 183a.

**3557. — German, 1818.**

Ueber die Begründung eines natürlichen Systems der Mineralogie von Franz Anton Nüsslein. Bamberg und Leipzig, bei Carl Friedrich Kunz, 1818.

8°: [2], 63, [1] p. RARE.

REFERENCES: BL: [no copy listed]. • *Katalog Bergakademie Freiberg*, 1879: p. 486 [VI. 370.]. • NUC.

**3558. — German, 1818.**

Ueber der Verhältnisse der Gefüges zur Form im Reiche des Krystallisation von Franz Anton Nüsslein ... Bamberg, 1818.

18°: 78 p. A study on the combination of forms in realm of crystals. VERY RARE.

REFERENCES: BL: [no copy listed]. • *Katalog Bergakademie Freiberg*, 1879: p. 486 [VI. 407.]. • Poggendorff: 2, 303-304.

**ODOLANT-DESNOS, Joseph Jacques.** (BORN: 1797; DIED: after 1850?) *French writer.*

Since its foundation in 1652, the Academy of Caen has attracted to its ranks many Men of Letters and personalities originating from, or connected with, the Orne département. One, M. Odolant-Desnos, called a man of letters in Paris, is mentioned between the years 1830 to 1850, and is probably related (son?) to a noted eighteenth century French historian, Pierre-Joseph Odolant-Desnos [1722-1801]. Joseph Jacques authored works on a variety of topics including mythology, economics, and history. Although other biographical information is obscure, his birth year is given in several sources as 1797.

REFERENCES: ABF: I 793, 95-98, II 493, 264. • *Biographie Universelle*. • Frère, *Manuel du Bibliographie Normand*, 1857-60. • Internet search. • *Nouvelle Biographie Générale* (Hoefer). • Oursel, *Nouvelle Biographie Normande*, 1886. • WBI.

**3559. — French, 1827-8.**

Précis de Minéralogie Moderne, précédé d'une Introduction Historique, et suivie d'une Biographie, d'une Bibliographie ... Paris, Encyclopédie Portative, 1827-28.

2 vols. [VOL 1] 16°: viii, 300 p. [VOL 2] 16°: viii, 343 p., 2 engraved plates.

RARE. This small mineralogy that provides a modern introduction to its subject includes historical and biographical notes as well as a bibliography of

## OKEN

its subject. It forms parts 20 and 21 of the series *Encyclopédie Portative, ou Résumé Universel des Sciences, des Lettres et des Arts*.

REFERENCES: Agassiz, *Bibliographia Geologiae*, 1848-54: 4, 35. • BL: [no copy listed]. • BMC: 3, 1462.

### 3560. — Italian, 1829-34 [Italian transl.].

Compendio di Mineralogia Moderna. Contenete la Descrizione ... de' Minerali. Preceduto da una Introduzione Storica, e Seguito da una Biografia, da una Bibliografia, e da un Vocabulario de' Termini Tecnici. Milano, Il Editore, 1829-34.

2 vols. 24°.

VERY RARE. Forms part of the series *Enciclopedia Portatile*.

REFERENCES: BL: [no copy listed]. • NYPL Catalog.

### OEBBEKE, Konrad. (BORN: 1853; DIED: 1932) *German mineralogist.*

REFERENCES: DBA: II 961, 375-379. • Poggendorff: 6, ?? . • WBI.

### 3561. — German, 1904.

Die Stellung der Mineralogie und Geologie an den technischen Hochschulen. Festrede gehalten zur Eröffnungsfest des Studienjahres am 10. Dezember 1902, von Dr. Konrad Oebbeke. [München, 1904].

4°: 37 p. "Literatur-Nachweise," p. 21-37.

VERY RARE. Provides a brief history of mineralogy and geology in the technical highschool in Munich where the author taught. Published as: *Schriften der Techn. Hochsch.*, 1903-1904.

REFERENCES: NUC.

### OEHLER, Franz Wilhelm Georg.

### 3562. — German, 1879.

Ueber krystallographische Zonen. Wissenschaftliche Abhandlung. Bautzen, Monse Druckerei, 1879.

4°: 14 p., 3 double-sided plates. Published as: "Programm Gymnasium Bautzen, 1878-79, no. 444." A short description of zoning in crystals. RARE.

REFERENCES: BMC: 3, 1462.

### OHMANN, Otto.

### 3563. — German, 1896 [First edition].

Leitfaden der Chemie und Mineralogie. Für höhere Lehranst. Von Prof. Otto Ohmann. Berlin, Winkelmann-Verlag, 1896.

8°: viii, 160 p., illus. VERY SCARCE.

2nd edition, 1900: viii, 160 p., illus.

3rd edition, 1904: viii, 162 p., illus.

4th edition, 1907: vi, [2], 166 p., 95 illus.

5th edition, 1910: viii, 210 p.

6th edition, 1916: viii, 210 p.

7th edition, 1921: viii, 212 p., 162 illus.

REFERENCES: BL. • NUC.



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**OKEN, Lorenz.** (BORN: Bohlsbach near Offenburg, Germany, 1 September 1779; DIED: Zurich, Switzerland, 11 September 1851) *German naturalist.*

Born Okenfuß, the natural scientist changed his name to Oken "to avoid ridicule". The son of a farmer, Oken had studied medicine in Freiburg before transferring to Göttingen, where he qualified to lecture in 1805. He was summoned to Jena to take up the extraordinary professorship for medicine in 1807. He had, however, already discovered his special liking for philosophy and the sciences, and published a whole series of natural-philosophical and natural-historical works over the following years. In 1816 he was awarded the title of Honorary Doctor of Philosophy by the University of Gießen. In the same year, he first published the periodical "Isis", which continued publication until 1848 and became the cause of much controversy. Oken wanted to establish "Isis" as a forum for all academic subjects (except theology and jurisprudence), and publicised his political views there. Calls for a ban on the publication were heard from several quarters, among others from Goethe who had a personal enmity with Oken. After Oken and two other professors from Jena had taken part in the Wartburgfest and reported the event in "Isis", Oken was forced to resign and the journal was banned in Jena. After a short stay in Basel in the winter term of 1821/22, Oken lived privately in Munich and continued to publish his magazine. In 1827, he was made a full professor of physiology at the University of Munich, but continued to involve himself in numerous disputes there and was forced to step down in 1832. The following year, he was offered a full professorship for natural history in Zürich which he held until his death. Oken's main work is considered to be the 13-volume "Naturgeschichte für alle Stände" (natural history for all social ranks), first published between 1833 and 1841.

REFERENCES: ADB: 24, 216-26. • DBA: I 915, 119-132; II 966, 199-210. • DSB: 10, 194-6. • Günther, *Lebensskizzen der Professoren*, 1858. • Hamberger & Meusel, *Gelehrte Teutschland*, 1796-1834. • Hirsch, *Biographisches Lexikon*, 1884-8. • Poggendorff: 2, col. 319. • Schrader, *Biographisch Lexicon der Tierärzte*, 1863. • Wagenitz, *Göttinger Biologen*, 1988: 134. • WBI.

### 3564. — German, 1809.

Grundzeichnung des natürlichen Systems der Erze. V. Jena in den Osterferien 1809. Jena, Friedrich Frommann, 1809.

4°: 40 p. PAGE SIZE: 250 x 218 mm.

VERY RARE. Oken's attempt to create a new classification of ores. Unlike systems of the past, it does not rely simply on the chemical, crystallography, and physical characteristics, but also includes the nature of the ores formation in the classification. GOETHE was not convinced of the theory, however, and authored his essay, "Natürliches System der Erze nach Oken" about it.

REFERENCES: LKG: XII 180.

**3565. — German, 1833-42.**

Allgemeine Naturgeschichte für alle Stände von Professor Oken ; bearbeitet von F.A. Walchner. Stuttgart, Hoffman, 1833-1842.

[TITLE OF THE MINERALOGY VOLUME READS:]

Allgemeine | Naturgeschichte | für | alle Stände, | von | Professor Oken. | [tapered rule] | Erster Band | Mineralogie und Geognosie | bearbeitet von | Dr. F.A. Walchner. | [tapered rule] | Stuttgart, | Hoffmann'sche Verlags=Buchhandlung. | 1839.

8 vols. in 14. [VOL 1: 1839] 860 p., 228 illus. (Mineralogie und Geognosie bearbeitet von F.A. Walchner). [VOL 2: 1839] iv, 386 p. (Botanik erster Band). [VOL 3.1: 1841] 702 p. (Botanik zweyten Bandes erste Abtheilung). [VOL 3.2: 1841] 704-1454 p. (Botanik zweyten Bandes zweyte Abtheilung). [VOL 3.3: 1841] 1455-2135, XXX p., 44 p., one folding table. (Botanik zweyten Bandes dritte Abtheilung.). [VOL 4: 1833] iv, 617 p. (Thierreich erster Band). [VOL 5.1: 1835] xiv, 538 p. (Thierreich zweiten Bandes erste Abtheilung). [VOL 5.2: 1835] 540-1050 p. (Thierreich zweiten Bandes zweite Abtheilung.). [VOL 5.3: 1836] 1052-1445 (i.e., 1845) p. (Thierreich zweiten Bandes letzte Abtheilung.) [VOL 6: 1838] 698 p. (Thierreich dritter Band.). [VOL 7.1: 1837] iv, 685 p. (Thierreich vierten Bandes erste Abtheilung). [VOL 7.2: 1838] viii p., 689-1432 p. (Thierreich, vierten Bandes zweyte Abtheilung). [VOL 7.3: 1839] 1434-1872 p. (Thierreich vierten Bandes dritte Abtheilung). [VOL 8: 1842] 468 p. (Universal-Register zu Okens allgemeiner Naturgeschichte). Includes bibliographies and indexes. [Atlas] 2°: [2] p., 73 plates (44 are handcolored and 29 b/w plates). PAGE SIZE: Atlas, 335 x 265 mm.

VERY SCARCE. From an early age, Oken took an active interest in all branches of natural history and human knowledge on which he authored many contributions. One of his major works is his *Allgemeine Naturgeschichte* (General Natural History) which he compiled with monumental diligence, bringing together his extensive knowledge of minerals, animals, and plants, that appeared in a series that extended to thirteen volumes over nine years. The series begins with a volume describing minerals that contains a good mineralogy, authored by FRIEDRICH AUGUST WALCHNER. In the next volumes it goes into plants and animals, with the concluding sections being a description of humans. Oken provides a wonderful text, filled with many stories and knowledgeable details, in a manner not often encountered in books any more.

The author was attempting to create a work that in historical retrospect can be called one of the first to be interpreted as a work of popular science. Oken invented the systems that arrange the minerals, plants, and animals that are described, as well as introducing a nomenclature to support it. His importance lies in the formation of fundamental concepts that guided his publications. For example, Oken postulated the existence of a primal slime from which all living things originated. His work has been assessed by historians and philosophers from then on.

An Atlas with illustrations for the text volumes was published in 1843. It contains the following plates: mineralogy 6 plates (2 hand-colored, 4 b/w all showing cross-sections!), plants 22 plates (20 colored, 2 b/w), anatomy 13 plates ( 0 colored, 13 b/w), zoology 21 plates (11 colored, 10 b/w), and supplement 11 plates (11 colored, 0 b/w), for a total of 73 plates of which 44 are handcolored and 29 b/w plates.

Contents: vol. 1. Bd. Mineralogie und Geognosie. vols. 2.-3. Botanik. vols. 4.-7. Thierreich. vol. 8. Universal register.

REFERENCES: BL. • NUC.

**ÓLAFFSSON, Eggert.** (BORN: Snaefellsnes, Iceland, 1726; DIED: At sea in Breida Bay off the northwest coast of Iceland, May 1768) *Icelandic poet & antiquarian.*

Ólaffsson an outstanding figure in the history of Iceland's fight to preserve and revive its language, culture, and economy. He was of an old farming family, and his major interests lay in natural history. He took a bachelor's degree at the University of Copenhagen. Encouraged by the Danish authorities who governed Iceland at the time he was entrusted to write a meticulous description of the places, climate, inhabitants, lifestyle, traditions, fauna, flora, and mineral resources. Assisted by his friend Bjarni Pálsson, he composed his *Reise igiennem Island* (1772), which was very popular, and existed for many years as the best and principle source of information about Iceland.

REFERENCES: *Encyclopaedia Britannica*, 11th edition. • Poggendorff: 2, col. 319.

**3566. — Latin, 1749 [Dissertation].**

Præs. Enerrationes historicæ de natural et constitutione Islandiæ, formatae et transformatae par eruptiones ignis. Particula prima de Islandia antequam coepta est habitari. Resp. Illogo Sigurdi Filio. Hafniæ, 1749.

8°: 148 p.

VERY RARE. Ólaffsson authored this dissertation on the history and natural science of his native Iceland, describing the formation and transformation of the landscape through volcanic eruptions.

REFERENCES: BL: [152.a.10.]. • *Katalog Bergakademie Freiberg*, 1879: p. 490 [IX. 1201.]. • LKG: XIV 26.

**3567. — Danish, 1772 [First edition].**

Vice=Lavmand Eggert Olafsens | og | Land=Physici Bjarne Povelsens | Reise igiennem Island, | foranstaltet | af | Videnskabernes Selskab | i Kiøbenhavn, | og beskreven af forbemeldte | Eggert Olafson, | med | dertil hørende 51 Kobbetstøkker | og | et nyt forfærdiget Kart over





REISE IGIENNEM ISLAND, 1772

Island. | [rule] | Første Deel. | [double rule] | Sorøe, 1772. | Trykt hos Jonas Lindgren Enke.

2 vols. [VOL 1] 4°: [12], [1]-618, [2] p. [VOL 2] 4°: [619]-1042, [62], 20, [2] p., 51 plates, one engraved map.

RARE. Co-authored with Bjarni Pálsson and edited by G. Schøning. Released in 1772 this book is a good scientific description of Iceland, containing observations on the manners and customs of the inhabitants, a description of the lakes, rivers, glaciers, hot-springs, and volcanoes, of the various kinds of earths, stones, fossils, and petrifications, as well as of the animals, insects, fishes, etc. It was based upon a survey the authors performed at the request of the King of Denmark. They arrived on the island in 1752 and altogether spent five years on this scientific journey. On the basis of this report of the journey, the Danish government reinterpreted and reevaluated their role in Iceland.

**Modern Icelandic translation, 1968:** Búnaarbákkur. Ljósprentá eiginhandarrit höfundar Lbs. 1513. Vilhjálmur Jón Thorsteinsson Gíslason gaf út. Reykjavík: Bókauktgáfa Menningarsjóðs, 1968. Pages not numbered, illus., facsimis. [BL, X.955/1029.]

REFERENCES: *Bibliotheca Danica*: 3, 613. • BL: [983.d.8.]. • Fiske: 1, 439. • LKG: XIV 27a. • Personal communication: [Peter Kiefer, Pforzheim, supplied a title page image for transcription.]

**3568. German transl., 1774-5:** Des vice-lavmands Eggert Olafsen und des landphysici Bjarne Povelsens Reise durch Island, veranstaltet von der Königlichen societät der wissenschaften in Kopenhagen und beschrieben von bemeldtem Eggert Olafsen. Aus dem dänischen übersetzt

[von Joachim Michael Geuss]. Mit 25 kupfertafeln und einer neuen charte über Island versehen ..., Kopenhagen und Leipzig, Heinecke und Faber, 1774-5.

2 vols. [VOL 1: 1774] 4°: [16], 328 p. [VOL 2: 1774] 4°: xvi, 244 p., 51 engraved plates, one folding table.

VERY SCARCE. Translation by Joachim Michael Geuss [??-??] of *Povelsen Reise igiennem Island* (Sorøe, 1772).

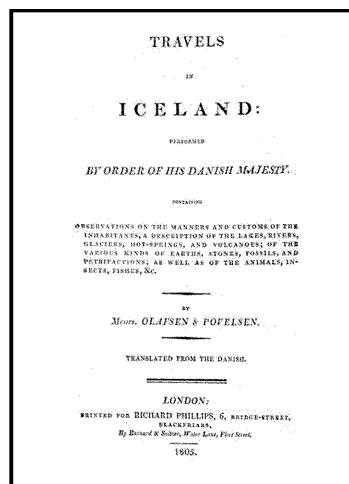
REFERENCES: BL: [983.d.10.]. • *Katalog Bergakademie Freiberg*, 1879: p. 490 [IX. 1197.]. • LKG: XIV 28b.

**3569. French transl., 1802:** Voyage | En Islande, | Fait Par Ordre De S.M. Danoise, | Contenant des observations sur les mœurs | et les usages des Habitans; une description des | Lacs, Rivières, Glaciers, Sources Chaudes et | Volcans; des diverses espèces de Terres, Pierres, | Fossiles et Pétrifications; des Animaux, Poissons | et Insectes etc., etc.; | Avec Un Atlas; | Traduit du danois par Gauthier- | de-Lapeyronie, traducteur des Voyages | de Pallas. | Tome Premier. | Prix: 12 francs. | [ornate rule] | A Paris, | Chez les Frères Levrault, Libraires, | quai Malaquai; | Et à Strasbourg, chez les mêmes. | [rule] | (1802.)

5 vols. and an atlas of plates. [VOL 1] 8°: [2], iv, 444 p. [VOL 2] 8°: [2], 434 p. [VOL 3] 8°: [2], 400 p. [VOL 4] 8°: [2], 451 p. [VOL 5] 8°: [2], 419 p. [Atlas] 4°: [2] p., 59 plates.

VERY SCARCE. Translation by Gauthier de la Peyronie [??-??] of *Povelsen Reise igiennem Island* (Sorøe, 1772).

REFERENCES: Barbier: 4, 1084. • BL: [567.f.4.]. • LKG: XIV 28c\*. • Personal communication: [Peter Kiefer, Pforzheim, supplied a title page image for transcription.]



TRAVELS IN ICELAND, 1805

**3570. English transl., 1805:** Travels | In | Iceland: | Performed | By Order Of His Danish Majesty. | Containing | Observations On The Manners And Customs Of The | Inhabitants, A Description Of The Lakes, Rivers, | Glaciers, Hot-Springs, ANd Volcanoes; Of The | Various Kinds Of Earths, Stones, Fossils, And | Petrifications, As Well As Of The Animals, In- | Sects, Fishes, &c. | [tapered rule] | By | Messrs. Olafsen & Povelsen. | [tapered rule] | Translated From The Danish. | [double rule] | London: | Printed for Richar Phillips, 6, Bridge-Street. | Blackfriars, | By Bernard & Salter, Water Lane, Fleet Street. | [rule] | 1805.

8°: [i]-iv, [1]-162 p.

CONTENTS: [i-ii], Title page, verso blank.; [iii]-iv, "Preface."; [1]-158, Text.; [159]-162, "Index."

VERY SCARCE. Copiously illustrated in colour and black and white throughout. "Containing observations on the manners and customs of the inhabitants, a description of

the lakes, rivers, glaciers, hot-springs and volcanoes; of the various kinds of earths, stones, fossils and petrifications; as well as of the animals, insects, fishes, & c."

**Sections:** 1. Southern Quarter 2. Western Quarter of Iceland 3. Various Interesting Particulars 4. Journey to the Westerykel 5. Northern Quarter 6. Eastern Quarter 7. Southern Quarter

**Revised English translation, 1975:** *Travels in Iceland*. By Eggert Ólafsson and Bjarni Pálsson. Translated from the Danish [by F.W.B.]. Revised English edition. [Reykjavik]. Örn og Örlygur, 1975. [8], 168 p., 88 plates, illus. (some col), one map (on lining papers). Includes index. [BL, X.802/10537.]

REFERENCES: BL. • NUC.

**OLAFSYN (Olavius, Ólafsson), Ólafur.** (BORN: 1741; DIED: 1788) *Danish customs official & naturalist*.

REFERENCES: Borgfirðingur, *Stutt Rithöfundatal á Íslandi*, 1884. • *Dansk Biografisk Haandleksikon*: 2, ??, • *Dansk Biografisk Lexikon*: 12, 393. • LKG. • Nyerup & Kraft, *Almindeligt Litteraturlæxikon*, 1818-20. • Páll, *Íslenzkar Æviskrár*, 1948-76. • SBA: Scandinavian Biographical Archive: A-239, 280-292. • WBI. • Worm, *Forsøg til et Lexicon over Danske*, 1771-84.

**3571. — Danish, 1780** [First edition].

Oeconomisk Reise igiennem de nordvestlige, nordlige, og nordøstlige Kanter af Island. Tilligemed Ole Henckels Underretning om de Islandske Svovel-Miiner og Svovel-Raffinering samt Vice-Markscheider Christian Zieners Beskrivelse over nogle Surterbrands-Fielde i Island. 1. [-2.] Deel. København., Trykt paa Gyldendals Forlag, 1780.

2 parts in one vol. 4°: [4], ccxx, 756, [26] p., 17 plates (6 folding).

**RARE.** Ólafur Olafsyn traveled through out Iceland in the summers of 1775-1777 under instructions to study harbors and landing sites in order to find places suitable to set up fishing settlements. Olavius wrote a book on his travels and research entitled *Oeconomisk Reise igiennem Island*, published in 1780. This economic survey concentrates on northern Iceland and contains detailed references to mining, mineral resources, shipping and fishing. Icelandic waters have always been extremely productive fishing grounds and have been fought over many times.

The book includes a new map of Iceland which was largely unchanged from the map contained in Eggert Ólafsson and Bjarni Pálsson's *Reise igiennem Island* (Sorøe, 1772), but was printed in a slightly different format and was something of an improvement. It was Jón Eiríksson who was mainly responsible for creating the map but he would have used Olavius' data. The coastline of the country is unchanged from the journal map but the treatment of the place names is vastly superior.

REFERENCES: BL: [456.a.4.]. • Fiske: I, 445. • LKG: XIV 37\*.

**3572. German transl., 1787:** Olaus Olavius | Oekonomische Reise | Durch | Island | in | den Nordwestlichen, und Nord-Nordöstlichen | Gegenden. | [tapered rule] | Auf Königl. Dänischen Befehl herausgegeben | und | durch nöthige Kupfer erläutert. | [ornament] | Aus dem Dänischen ins Deutsch übersetzt. | [rule] | Mit einer neuen

Landcharte und 17 Kupfertafeln. | [ornate rule] | Dresden und Leipzig, | in der Breitkopfschen Buchhandlung. 1787. 4°: [2], 464 p., folded maps, plates (part folded).

**RARE.** Translation by J. Jaspersen of *Oekonomiske Reise igiennem de nordvestlige* (Copenhagen, 1780).

REFERENCES: *Katalog Bergakademie Freiberg*, 1879: p. 490 [IX. 1199.]. • LKG: XIV 37\*. • Personal communication: [Peter Kiefer, Pforzheim, supplied a title page image for transcription.].

**OLEARIUS (Oelschlager), Adam.** (BORN: Ascherleben, Denmark, 24 September 1603; DIED: Schloß Gottorf, Schleswig, Germany, 22 February 1671) *Danish librarian & naturalist*.

Olearius was a well-known travel writer. After studying at Leipzig he became librarian and court mathematician to Duke Frederick III. of Holstein-Gottorp, and in 1633 he was appointed secretary to the ambassadors Philip Crusius, jurisconsult, and Otto Briigge-mann or Brugman, merchant, sent by the duke to Muscovy and Persia in the hope of making arrangements by which his newly-founded city of Friedrichstadt should become the terminus of an overland silk-trade.

REFERENCES: ADB: 24, 269-76. • BAB: 506, 2-3. • *Dansk Biografisk Lexikon*. • DBA: I 916, 37-50; 916, 401; II 967, 168-208. • DBE: 7, 486. • Jöcher, *Gelehrten-Lexikon*, 1750-51. • Poggendorff: 2, col. 322. • SBA: Scandinavian Biographical Archive: A-240, 120-123. • Thieme & Becker, *Allgemeines Lexikon*, 1907-50. • WBI. • Zischka, *Allgemeines Gelehrten-Lexikon*, 1961: p. 468.

**3573. — German, 1666** [First edition].

Gottorffische | Kunst=Cammer/ | Worinnen | Allerhand ungemeine Sachen/ so theils die | Natur/ theils künstliche Hände hervor gebracht und bereitet. | Vor diesem | Aus allen vier Theilen der Welt zusammen getragen. | Jetzo beschrieben Durch | Adam Olearium, Bibliothecarium und Antiquarium | auff der Fürstl. Residentz Gottorff. | [ornament] | Schließwig in der Fürstl. Druckerey gedruckt durch Johan Holwein/ | [rule] | Im Jahr 1666.

Square 4°: [16], 88 p., 36 engraved plates (numbered I-XXXVI). With a second titlepage, engraved. VERY SCARCE.

REFERENCES: BL: [462.a.27.]. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 258. • NUC: [no copy listed]. • *Origins of Museums*. Ed. Impey & MacGregor, 1985: 124-5. • VD17: 23:292132Q.

**3574. 2nd edition, 1674:** Gottorffische | Kunst-Kammer/ | Worinnen | Allerhand ungemeine Sachen/ So | theils die Natur/ theils künstliche Hände her= | vorgebracht und bereitet. | Vor diesem | Aus allen vier Theilen der Welt | zusammen getragen/ | Und | Vor einigen Jahren beschrieben/ | Auch mit behörigen Kupffern gezieret | Durch | Adam Olearium, Weil. Bibliothecarium | und Antiquarium auff der Kürftl. Rest= | dentz Gottorff. | Anjetzo aber übersehen und zum andern mal | dedruckt/ | [ornament] | Auff Gottfriedt Schltzens Kosten. 1674. | [rule] | In dessen Buchladen zu Schleswig solche zu finden ist.

4°: [12], 80 p., engraved frontispiece, 37 engraved plates (34 folding). PAGE SIZE: 166 x 204 mm.

**VERY SCARCE.** Description of a famous natural history and ethnographic cabinet. It was originally formed by Bernhard Paludanus (or Ten Broek), a 16th century physician who travelled extensively and brought back the many items to Enkhuizen in Holland, where he died in



GOTTORFFISCHE KUNST-KAMMER, 1674

1633. Through Olearius, The Duke of Schleswig-Holstein purchased the collection and brought it to his estate at Gottorf in 1651. After subsequent additions, Olearius was retained to write this catalog, which was long used by collectors as a convenient handbook. Murray records that the greater part of the Museum was then taken to St. Petersburg, where it was absorbed into the imperial collections.

The first few plates are of ethnographic interest relating to the East and also Lapland, plate 5 shows a representation of the seasons by an arrangement of fruits and plants, and the others show animals, minerals, fossils, etc. The book is completed by a Holstein Chronicle of the same author following after the work here described. ([1]-72, [1]-148 p.).

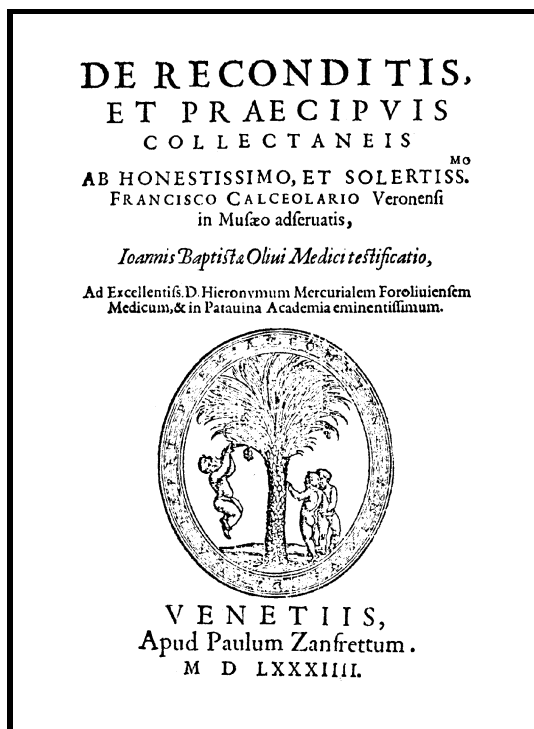
REFERENCES: BL: [446.c.23.(7.)]. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 258. • Murray, *Museums*, 1904: 1, 96, 145 & 3, 64. • NUC: 429, 333-6 [NO 0069297]. • Schröter's *Journal für die Literatur*: 5 (1777), 110. • VD17: 39:123900C. • *Zeitschrift für Museologie*: 1800, no. 20 [from Murray].

**OLIVA (Olivi), Giovanni Battista (16th century).** (BORN: ; DIED: ) *Italian physician.*

REFERENCES: Lambrecht & Quenstedt, *Catalogus*, 1938: 319. • Zittel, *History of Geology*, 1901.

**3575. — Latin, 1584** [Collection catalog].

De | Reconditis, | Et Praecipuis | Collectaneis  
| Ab Honestissimo, Et Solertiss.<sup>mo</sup> | Francisco  
Calceolario Veronensi | in Musæo adseruatis,  
| Ioannis Baptistæ Oliui Medici testificatio, |  
Ad Excellentiss. D. Hieronymum Mercurialem  
Foroliuensem | Medicum, & in Patauina Academia



DE RECONDITIS, 1584

eminentissimum. | [ornament] | Venetiis, | Apud Paulum Zanfretum. M D LXXIII.

8°: [24], 54, [16] p., frontispiece (oval copper engraving showing putti picking fruit from a palm tree), headlines, capital letters.

RARE. By 1570, the fame of CALZOLARI's Museum had spread beyond the borders of Italy, and was well known to naturalists throughout Europe. Besides, within Italy, Calzolari's generosity and hospitality attracted a large number of visitors, particularly physicians, to personally visit the Museum. For these reasons and a close bond of friendship between Calzolari and Olivi, the later undertook to compile a catalog of the museum's objects. It appeared as a small book of little substance, which contains typical of the time, a number of recommendatory letters.

The title records that the work is dedicated to Dr. Gerolamo Mercuraile, a physician of Forlì, and instructor at the University of Padua. Following are 21 pages of dedicatory letters and sonnets extolling the value of a catalog of the museum, describing the aim of the work, and giving an actual eyewitness account of an actual visit. Included are observations about the museum's contents, including the relatively large collection of portraits of celebrated philosophers and doctors. The inventory of the items follows and includes in its listing, herbs, animals and minerals, in no systematic order, with frequent references to exhibits in the Calzolari museum. The work concludes with another declaration, complete with seal, by the

Bologna naturalist, ULISSE ALDROVANDI. Aldrovandi and Calzolari had been friends since 1554 and had developed a friendly rivalry in building each of their respective collections.

REFERENCES: Accordi, B., "The Musaeum Calceolarium (XVith. Century) of Verona Illustrated in 1622 by Ceruti and Chiocco," *Geologica Roma*, 16 (1977), 21-54: [see pp. 44-6]. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 287. • Murray, *Museums*, 1904: 1, 70, 84 & 2, 154. • NUC: 429, 451. • Wilson, *History of Mineral Collecting*, 1994: 208.

**OLMSTED, Denison.** (BORN: 1791; DIED: 1859)  
*American physicist.*

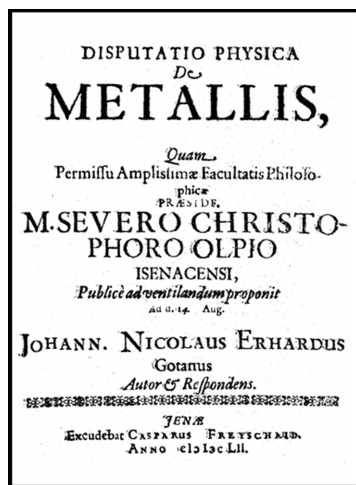
REFERENCES: ABA: I 1209, 98-120; II 451, 391. • *Appleton Cyclopedic of American Biography*. • Drake, *Dictionary of American Biography*, 1872. • Herringshaw's *National Library of American Biography*. • *National Cyclopedic of American Biography*. • WBI. • *Who Was Who in America*.

**3576. — English, 1819.**

Outlines of the lectures on chemistry, mineralogy, & geology, delivered at the University of North-Carolina... Raleigh [N.C.], Printed by J. Gales, 1819.

8°: 44 p. VERY SCARCE.

REFERENCES: Evans, *American Bibliography*: no. 48982. • NUC.



DISSERTATIO, 1652

**OLPE, Severus Christoph.**

**3577. — Latin, 1652** [Dissertation].

Dissertatio Physica | De | Metallis, | Quam | Permissu Amplistimæ Facultatis Philoso- | phicæ | Præsides, | M. Severo Christo- | phoro Olpio | Isenacensi, | Publicè ad ventilandum proponit | Ad d. 14. Aug. | Johann. Nicolaus Erhardus | Gotanus | Autore & Respondens. | [ornate rule] | Jenæ | Excudebat Casparus Freyschaid. | Anno 1652 LII.

4°: A-B<sup>4</sup>; 8<sup>l.</sup>; [16] p.

CONTENTS: A1, Title page.; A2, Dedication.; A3r-B4v, Text.

RARE. Dissertation defended on 14 August 1652 by Johann Nicolaus Erhard [fl. 1652], that describes the physical properties of various metals.

REFERENCES: LKG: XVI 46. • VD17: 547:634348A.

**OPOIX, Christophe.**

REFERENCES: ABF: I 796, 105-117; II 495, 92-93. • Beauchamp, *Biographie Moderne*, 1816. • *Nouvelle Biographie Générale* (Hoefer): ??, ??. • Poggendorff: 2, col. 328. • WBI.

**3578. — French, 1803-8.**

Minéralogie de Provins (Seine et Marne) et de ses Environs, avec l'Analyse de ses Eaux Minérales, leurs Propriétés Médicinales, ... Par Opoix. Paris et Provins, Lebeau An XI (1803).

2 vols. 12°:

VERY RARE. Topographical mineralogy of the land surrounding the Seine and Marne rivers of France. It includes an analysis of the mineral waters, and the medical properties of minerals found.

REFERENCES: BL: [no copy listed]. • LKG: XIV 352.

**OPORTO, Portugal. Universade.—Museu.**

**3579. — Portuguese, 1891** [Collection catalog].

Catálogo do Gabinete de Mineralogia, Geologia e Paleontologia. Porto, 1891.

8°: VERY SCARCE.

REFERENCES: BL: [no copy listed]. • NUC: [no copy listed].

**ORD, William Miller.**

REFERENCES: BBA: I 835, 72-78. • WBI.

**3580. — English, 1879.**

On the Influence of Colloids upon Crystalline Form and Cohesion. London, 1879.

8°: x, 179 p., 8 plates. VERY SCARCE.

REFERENCES: BMC: 3, 1476.

**ORLANDINI, Luis.**

**3581. — Spanish, 1896.**

Elementos de Mineralogia y Petrografia. Buenos Aries, 1896.

8°: viii, 175 p., 8 plates. VERY SCARCE.

REFERENCES: BMC: 3, 1476.

**ORSCHALL, Johann Christian.**

REFERENCES: DBA: I 920, 46. • Jöcher, *Gelehrten-Lexikon*, 1750-51. • WBI.

**3582. — German, 1696.**

Wunder Drey/ | Das ist: | Beschreibung | Dreyer | Dem Ansehen nach | Unannehmlicher | der Practic nach | aber wohl | Practicabler | Particularien, | Auß eigener Experienz | Von Einem Liebhaber | der Chymie. | [rule] | In Verlegung Jost Henrich Dressers, | Buchhändler in Cassel. | Druckts Henrich Harnes/ Fürstl. Hess. Hof= | Buchdrucker/ Im Jahr 1696.

## OVERMAN

12<sup>o</sup>:  $\pi^4$  A-C<sup>12</sup> D<sup>6</sup>; 46 $\ell$ .; [8], 1-84 p. PAGE SIZE: 128 x 72 mm.

CONTENTS: [2 pgs], Title page, verso blank.; [4 pgs], Dedication to Herrn Carl.; [2 pgs], "Vorerinnerung."; 1-84, Text.

VERY SCARCE. Describes various chemical and alchemical operations from the practical viewpoint. Special attention is given to the properties and reactions of mercury with other compounds. Of particular interest to mineralogy are some of the earliest descriptions of procedures for analyzing and assaying the ores of lead, zinc, tin, copper, silver and gold. Throughout the text, Orschall has included detailed "Processus" on the manipulation of reagents and apparatus in numerous experiments.

**3583. Supplement, 1686:** Wunder=Dreyes | Continuatio, | Welches sind fernere | Experimenta. | So in Elaboratione | Dieser | Drey Processen | observirt, | In Anno 1684. herausgegebenen | Wunderdrey/ | Auß sonderer Lieb deß Nächsten | herausgegeben | Von | Eben selbigem | Authore. | [rule] | In Verlegung Johann Ingebrands/ | Buchhändler in Cassel. | Marburg druckts Johann Heinrich Stock/ | Im Jahr 1686.

8<sup>o</sup>: A-F<sup>12</sup> G<sup>4</sup>; 76 $\ell$ .; [1]-152 p. PAGE SIZE: 128 x 72 mm. VERY SCARCE.

CONTENTS: [1-2], Title page, verso blank.; [3]-8, Dedication to Herrn Carl.; 9-20, "Erinnerungs Vorrede."; 21-152, Text.

**ORTON, James.** (BORN: 1830; DIED: 1877) *American clergyman.*

REFERENCES: ABA: I 1214, 235-236, 276-280; II 454, 36. • Adams, *Dictionary of American Authors*, 1904. • *Appleton Cyclopedic of American Biography*. • *Herringshaw's National Library of American Biography*. • *National Cyclopedic of American Biography*. • WBI. • *Who Was Who in America*.

### 3584. — English, 1872.

Underground treasures how and where to find them a key for the ready determination of all the useful minerals within the United States. Hartford, Worthington, Dustin and Company, 1872.

8<sup>o</sup>: [10], [9]-137 p., frontispiece, plates. VERY SCARCE.

REFERENCES: NUC.

### ORTUS SANITATIS.

See: *Herbals*.

**OTTLEY, William Campbell.** *English chemist.*

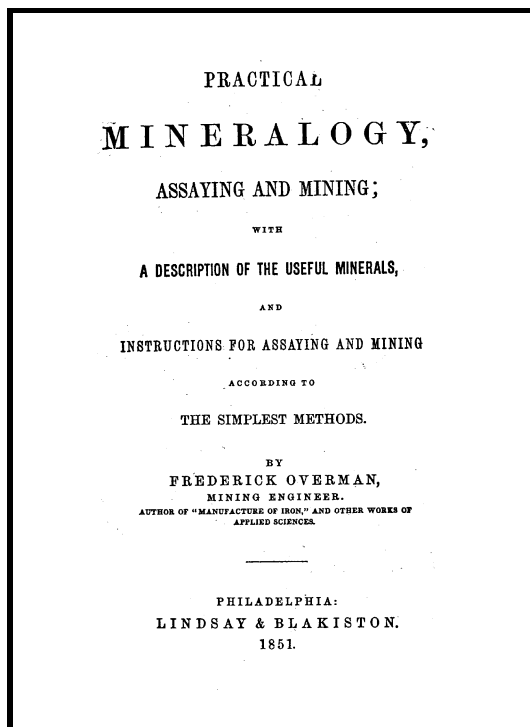
REFERENCES: Allibone, *Dictionary of English Literature*, 1859-71. • BBA: I 838, 137. • WBI.

### 3585. — English, 1826.

A dictionary of chemistry and of mineralogy as connected with it, in which is attempted a complete list of the names of substances, according to the present as well as former systems : with an introduction pointing out the order in which the chief parts of the work may be perused, so as to constitute a regular course of chemistry, and a vocabulary in which the apparatus and processes made use of are briefly described, copious notes, &c., &c. London, J. Murray, 1826.

One vol, unpaginated. Standard 19th century dictionary of chemistry and mineralogy. VERY SCARCE.

REFERENCES: NUC. • Roller & Goodman, *Catalogue*, 1976.



PRACTICAL MINERALOGY, 1851

**OVERMAN, Frederick.** (BORN: 1803?; DIED: 1852) *American mining & civil engineer.*

REFERENCES: ABA: I 1219, 189-192. • Adams, *Dictionary of American Authors*, 1904. • *Appleton Cyclopedic of American Biography*. • Drake, *Dictionary of American Biography*, 1872. • *Herringshaw's National Library of American Biography*. • WBI.

### 3586. — English, 1851 [First edition].

Practical | Mineralogy, | Assaying And Mining; | With | A Description Of The Useful Minerals, | And | Instructions For Assaying And Mining | According To | The Simplest Methods. | By | Frederick Overman, | [...3 lines of titles and writings...] | [rule] | Philadelphia: | Lindsay & Blakiston. | 1851.

8<sup>o</sup>: [i]-x, [13]-230 p.

CONTENTS: [i-ii], Title page, verso "Entered, according to Act of Congress, in the year 1851, ..."; iii-iv, "Introduction."—dated 1 March 1851.; v-x, "Table Of Contents."; [13]-225, Text.; [226]-230, "Practical Remarks."

SCARCE. Probably a cash-in on the California gold rush, begun 2 year prior, this book presents detailed geological and mining information about a wide variety of minerals, including gold, iron, copper, silver,

mercury, zinc, tin, chalk, diamonds, emery, flint, amber, asbestos, limestones, manganese, marl, ochre, sulfur, and many more. Special chapters concern assaying gold ore, lead ore, process of cupelling, forming a muffle, refining lead to obtain gold and silver, blasting tools, subterranean mining, etc. It was apparently a poplar work being reissued for many years with the title page claiming a new edition but with out the text being changed in any significant way.

**Other editions:** 2nd edition, 1853: x, [13]-230 p.  
3rd edition, 1854: x, [13]-230 p.  
6th edition, 1863: x, [13]-230 p.  
7th edition, 1867: x, [13]-230 p.  
11th edition, 1882: x, [13]-230 p.  
**REFERENCES:** NUC. • *USGS Library Catalog*.

**OWEN, David Dale.** (BORN: Braxfield House, Lamarkshire, Scotland, 24 June 1807; DIED: New-Harmony, Indiana, U.S.A., 13 November 1860) *Scottish/American geologist*.

**REFERENCES:** Adams, *Dictionary of American Authors*, 1904. • Allibone, *Dictionary of English Literature*, 1859-71. • Appleton *Cyclopedia of American Biography*. • BBA: I 840, 33-38. • Boase, *Modern English Biography*, 1892-1921. • Chamber's *Scottish Biographical Dictionary*, 1996. • DAB. • DBA: I 1219, 424-438; II 456, 120-123. • Drake, *Dictionary of American Biography*, 1872. • *Encyclopaedia Britannica*, 11th edition. • Herringshaw's *National Library of American Biography*. • Kelley & Burrage, *American Medical Biography*, 1928. • *National Cyclopedia of American Biography*. • Poggendorf: 3, 995.

**3587. — English, 1840** [Collection catalog].

Catalogue of mineralogical and geological specimens, at New Harmony, Indiana collected in various parts of Europe and America by William Maclure. Arranged for distribution by David Dale Owen. New Harmony, Ind., 1840.

8°: [1]-15, [1] p. Notes: "Arranged for distribution at the request of Miss Maclure and Alexander Maclure."—Title page. RARE.

**REFERENCES:** *USGS Library Catalog*.

**OWEN, Edward.** *English antiquarian*.

**REFERENCES:** BBA: I 840, 50. • Watt, *Bibliotheca Britannica*, 1824. • WBI.

**3588. — English, 1754.**

Observations | On The | Earths, Rocks, | Stones and Minerals, | For some Miles about Bristol, | and on the | Nature of the Hot-Well, | and the | Virtues of its Water. | [rule] | By Mr. Owen. | [double rule] | London: | Printed and Sold by W. Johnston, at | the Golden-Ball in St. Paul's Church-yard. | MDCCCLIV.

12°: [12], 250 p., [3] leaves of plates. Dedication signed, Edward Owen. Frontispice: "A View of St. Vincent's Rocks and the Hot Well near Bristol." VERY SCARCE.

**REFERENCES:** BL: [990.b.12.]. • LKG: XIV 420.

**P., M.B.C.P. de la C.**

Éléments d'Oryctologie ou Distribution Méthodique des Fossiles, Par M.B.C.P. de la C. de P. (Neuchâtel, 1773).

*See:* Bertrand, Bernard Nicolas.

**PACKE, Christopher.** (BORN: 1670; DIED: 1711) *English antiquarian*.

**REFERENCES:** BBA: I 843, 138. • WBI.

**3589. — English, 1693.**

[Contained within a double rule box:] Mineralogia: | Or, | An Account of the Preparation, | manifold Vertues and Uses of a Mineral | Salt, both in Physick and Chyrurge- | ry; which is so safe, pleasant and effe- | ctual in its Operation, that it may be taken by those of all Ages and Con- | stitutions with great Benefit, and with- | out Danger of the least Prejudice. | To which is added, | A short Discourse of the Nature and | Uses of the Sulphurs of Minerals and Metals, | in curing the most Chronical and pertinaci- | ous Diseases. | [rule] | By Chr. Packe, Philo-Chymico- | Medicus. | [rule] | London: | Printed and are to be sold by D. Newman, at | the Kings-Arms in the Poultry, 1693.

8°: A-D<sup>8</sup> E<sup>2</sup>; 34ℓ.; [2], 1-65, [1] p. RARE.

**CONTENTS:** [2 pgs], Title page, verso blank.; 1-65, Text, dated at end 4 May 1693.; [1 pg], "Advertisement."  
**REFERENCES:** BL: [778.c.35.].

**PAIJKULL, Carl Wilhelm.** (BORN: 22 October 1836; DIED: Samuelsberg outside Motala, Sweden, 12 June 1869) *Swedish geologist, mineralogist & chemist*.

Paijkull received his doctorate in geology and mineralogy at Uppsala in 1860. After his Iceland trip he worked in Stockholm as a science teacher and ran his own private chemical laboratory. He wrote several books on "popular" geology and mineralogy and was also active as translator in the same genre. Moved 1867 to Motala where he acted as a school inspector. He sold educational collections of rocks and minerals.

**REFERENCES:** SBA: Scandinavian Biographical Archive: B-234, 343. • *Svenskt Biografiskt Handlexikon*: 2, 257. • WBI.

**3590. — Swedish, 1866.**

En sommar på Island. | Reseskildring | af | C.W. Paijkull, | Docent i Geologi vid Upsala Universitet. | [rule] | Med 35 illustrationer i träsnitt, 4 litografier i färgtryck och | en graverad karta över Island. | [ornate rule] | Stockholm. | Albert Bonniers Förlag.

8°:  $\pi^3$  1-21<sup>8+1</sup>; 172ℓ.; [6], [1]-335, [3] p., 35 illus., 4 colored plates (Eruption of Hekla [Frontis]; Reykjavik; Bruara; Geysir), one map.

**CONTENTS:** [2 pgs], Title page, verso "Stockholm. | Alb. Bonniers boktryckeri, 1866."; [1 pg], Dedication to Axel Erdmann.; [1 pg], Blank.; [2 pgs], Foreword, guide to Icelandic pronunciation.; [1]-335, Text.; [3 pgs], Index.

**RARE.** Paijkull received a scholarship from Upsala University for this Icelandic tour that he completed on horse-back. The book, which is a popular account of the trip, is filled with comments on the geology and nature as well as the culture and inhabitants of Iceland.

## PALISSY

Mineralogically it deserves mentioning, since Pajkull collected zeolites at the famous Theigarhorn locality, material that he offered and sold to the mineralogical collections of Upsala University and the Museum of Natural History in Stockholm. As a results of the trip a geologic description of Iceland was presented in the Transactions of the Royal Swedish Academy of Science (KVAH 7:1): "Bidrag till kännedomen om Islands bergbygnad." Stockholm, 1869. [Entry by Johan Kjellman]

REFERENCES: Fiske: I, 453. • NUC. • SWIM.

**3591. English transl., 1868:** A Summer in Iceland. Translated by M.R. Barnard. London, Chapman and Hall, 1868.

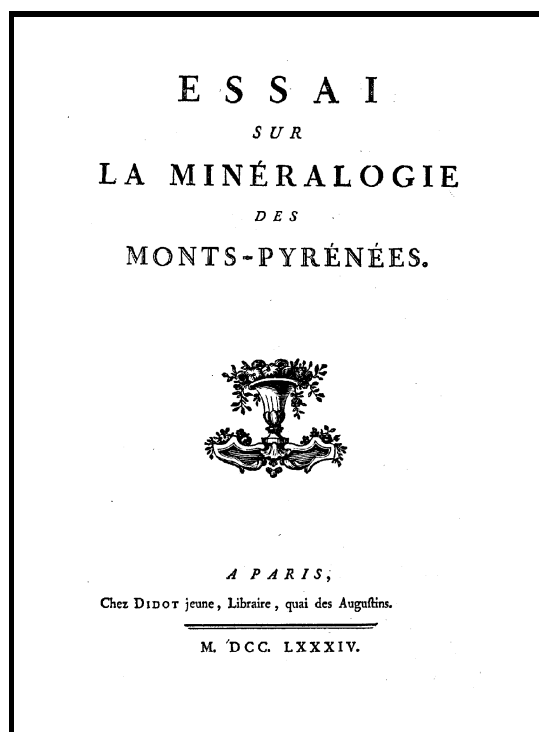
8°: ix, [1], 364 p., one hand-colored folding map, 6 plates. VERY SCARCE.

### PALJKULL, Sigurd Reinhold.

**3592. — Swedish, 1879.**

Mineralogi och geologi. [Avdelning 3 i Rebaus Naturhistoria, bearbetad och öfversatt efter Dana, Credner m. fl.] Oscar L. Lamms förlag, Stockholm, 1879.

8°:  $\pi^8$  1-30<sup>8</sup>; 75 $\ell$ .; 150 p., 27 fig., VERY SCARCE.



ESSAI SUR LA MINÉRALOGIE, 1784

**PALASSOU, Pierre Bernard.** (BORN: 1745; DIED: 1830) *French mineralogist & geologist.*

REFERENCES: ABF: I 804, 117. • Poggendorff: 2, cols. 346-7. • WBI.

**3593. — French, 1784.**

Essai | Sur | La Minéralogie | Des | Monts-Pyrénées. | [ornament] | A Paris, | Chez Didot jeune, Libraire, quai des Augustins. | [double rule] | M. DCC. LXXXIV.

4°: xx, 346 p., 12 plates, 10 maps (9 folding). PAGE SIZE: 252 x 183 mm.

VERY SCARCE. First scientific work devoted to the geology and the mineralogy of the whole of the Pyrenees. "Palassou, one of the collaborators of the mineralogical map of France, of Guettard and Monnet studies the septentrional edge of the Pyrenees and notes the extension of the conglomerate to large elements, now bearing his name, which makes it possible to specify the orogeny of the chain." (Daumas, Hist. science, 1115.) Illustrated by 12 engraved plates and 10 large maps including 9 folding.

REFERENCES: BMC: 4, 1503. • *Freilich Sale Catalog*: no. 418. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 149. • *Lichtenberg's Magazin*: 1, no. 2, p. 101. • LKG: XIV 388. • Zittel, *Geschichte der Geologie*, 1899: p. 102.

**3594. — French, 1815.**

Mémoires pour servir a l'histoire naturelle des Pyrénées et des pays adjacents par M. Palassou. Pau, De l'imprimerie de Vignancour ; Paris, Chez Barroisl'ainé, 1815.

xvi, 485 p. VERY SCARCE.

REFERENCES: NUC.

**3595. — French, 1819.**

Suite des mémoires pour servir a l'histoire naturelle des Pyrénées, et des pays adjacens par M. Palassou. Pau, De l'imprimerie de A. Vignancour, 1819.

xxiii, 428 p. VERY SCARCE.

REFERENCES: NUC.

**3596. Supplement, 1821:** Supplément aux mémoires pour servir a l'histoire naturelle des Pyrénées, et des pays adjacens suivis de recherches relatives aux anciens camps de la novempopulanie par M. Palassou. Pau, De l'imprimerie de A. Vignancour, 1821.

205 p.

VERY SCARCE. Supplement to: *Mémoires pour servir a l'histoire naturelle des Pyrénées, et des pays adjacents.*

REFERENCES: NUC.

**PALISSY, Bernard.** (BORN: Agen, in southern France, c1510; DIED: Paris, France, 1590) *French geologist.*

Palissy was a technical chemist and potter, and self taught naturalist. He was trained in the manufacture and decoration of stained glass windows. After his apprenticeship, Palissy traveled throughout France. He was fascinated by the various soils and stones and immediately took up the study of chemistry. He studied chemistry in the labs of alchemists and pharmacists. His interest in collecting mineralogical specimens was inspired by his interest in developing new colored glasses for his pottery.

Palissy converted to Protestantism in about 1546. He was one of the first Huguenots in Saintes, and was much persecuted for his religion. He joined with other artists to form a reformed church. Although a warrant of arrest was issued as early as 1558 for this group of artists, Palissy was imprisoned in Bordeaux in 1562. He was released through the influence of the queen mother. In 1588, soon after religious warfare once more broke out in France, he was



PALISSY

again imprisoned. He was taken to the Conciergerie, then transferred to the Bastille, where he died.

REFERENCES: ABF: I 804, 227-338; II 499, 356-380. • Bryan's Dictionary of Painters, 1903-4. • DSB: 10, ?? . • Dupuy, Bernard Palissy, l'homme, l'artiste, l'savant, l'ecrivain, Paris, 1894. • Encyclopaedia Britannica, 11th edition. • Feller, Biographie Universelle, 1851. • Leroux, D., La vie de Bernard Palissy, 1927. • Nouvelle Biographie Générale (Hoefler). • Poggendorff: 2, col. 347. • WBI.

## DISCOVRS AD- MIRABLES, DE LA NA-

TVRE DES EAVX ET FON-  
TEINES, TANT NATVRELLES QV'AR-  
tificielles, des metaux, des sels & salines, des  
pierres, des terres, du feu & des emaux.

AVEC PLVSIEVRS AVTRES EXCEL-  
lens secrets des choses naturelles.

PLVS VN TRAITE' DE LA MARNE, FORT  
vtile & necessaire, pour ceux qui se mellent de  
l'agriculture.

LE TOVT DRESSE' PAR DIALOGVES, ES-  
quels sont introduits la theorique & la practi-  
que.

Par M. BERNARD PALISSY, inuenteur des rustiques  
figurines du Roy, & de la Roynes mere.

A TRESHAVT, ET TRESPVISSANT  
sieur le fire Anthoine de Ponts, Cheualier des ordres  
du Roy, Capitaine des cents gentils-hommes, & con-  
seillet tresidele de sa maiesté.

A PARIS,

Chez Martin le Jeune, à l'enfeigne du Serpent,  
deuant le college de Cambray.

1580.

AVEC PRIVILEGE DV ROY.

DISCOVRS ADMIRABLES, 1580

**3597. — Latin, 1580** [First edition].

Discovrs Ad- | mirables, De La Na- | tvre Des  
Eavx Et Fon- | Teines, Tant Natvrelles Qv'Ar-  
| tificielles, des metaux, des sels & salines, des |  
pierres, des terres, du seu & des emaux. | Avec  
plvsievr avtres excel- | lens secrets des choses  
naturelles. | Plvs vn traité de la marne, fort |  
vtile & necessaire, pour ceux qui se mellent de |  
l'agriculture. | Le tovt dressé par dialogves, es- |  
quels sont introduits la theorique & la practi- | que.  
| Par M. Bernard Palissy, inuenteur des rustiques  
| figurines du Roy, & de la Roynes mere. | A  
Treshavt, Et Trespvissant | sieur le fire Anthoine  
de Ponts, Cheualier des ordres | du Roy, Capitaine  
des cents gentils-hommes, & con- | seillet tresidele  
de sa maiesté. | A Paris, | Chez Martin le Jeune,  
à l'enfeigne du Serpent, | deuant le college de  
Cambray. | 1580. | Avec Privilege Dv Roy.

8°: ★ A-Z<sup>8</sup> 2A<sup>8</sup> (★3 missigned a3); 200ℓ.; [16],  
1-361, [23] p. PAGE SIZE: 160 x 102 mm.

CONTENTS: [1 pg], Title page.; [1 pg], 'Extrait Dv  
Privilege.'; [7 pgs], 'A Treshavt Et Tres- | puissant sieur le  
fire Antoine de Ponts, ...'; [5 pgs], 'Advertissement | aux  
Lecteurs.'; [1 page], 'Depvis ...'; [1 pg], 'Les Principavx  
Points.'; 1-361, Text.; [16 pgs], 'Extrait Des Sentences.';  
[7 pgs], 'Explication Des Mots.'

VERY RARE. Duveen calls this an "extremely rare and a book of great importance in the history of chemistry and science generally." A skilled potter, Palissy first became famous for making rustic enameled earthenware, an art which earned him the position of "inventeur des rustiques figurines du Roy". In 1575, despite his lack of formal education, he began lecturing on natural history. He was thus one of the first men to teach natural science from facts, demonstrations and specimens rather than theory. Written in the form of a dialogue between "Théorique" and "Pratique", the Discours covers a wide range of subjects, the most important of which are those on hydrology and paleontology. "An early supporter of the infiltration theory, he denied that rivers and streams had any source other than rainfall. He also recognised the relation between fossils and both living and extinct species, and was one of the first to hold a reasonably correct view of the process of petrification." Norman. The rarity of this work was already mentioned by Brunet and confirmed by Duveen, but Ferguson's inscription in his copy purchased in 1889 is best: "At last, after long, long waiting and watching."

REFERENCES: Adams, *Birth and Development*, 1938: 90, 261 & 446-8. • *Catalogue of the Ferguson Collection of Books*: 1, viii & 2, p. 509. • Duveen, *Bibliotheca Alchemica et Chemica*, 1965: p. 446. • *Freilich Sale Catalog*: no. 419. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 31 & 2, 48. • Hoover Collection: no. 621. • LKG: III 28. • Norman Catalog: 2, ??, no. 1629. • Norman Sale Catalog: 1:144. • Thorndike, *History of Magic*, 1923-58: 5, 596-9. • Wilson, *History of Mineral Collecting*, 1994: 22-3 [portait].

**3598. 2nd edition, 1636:** Le | Moyen | De Devenir Riche, | Et  
| La Maniere Veritable, | par laquelle rous les hommes de la



## PALLAS

| France pourront apprendre à mul- | tiplier & augmenter leurs three- | sors & possessions. | Avec Plvsievr Avtres | excellens secrets des choses natu- | relles, desquels iniques à present | l'on n'a ouy parler. | Par Maistre Bernard Palissy de | Xaintes Ourrier de terre & Inuen- | teur des Rustiques Figulines | du Roy. | [ornament] | A Paris, | Chez Robert Foüet, ruë S. Jacques | à l'Occasion deuant les Mathurins. | [rule] | M. DC. XXVI. | Avec Privilege dv Roy.

[TITLE PAGE, SECOND PART, READS:]

Seconde Partie | Dv Moyen | De Devenir Riche, | Contenant Les Discovrs | Adirables de la Nature des eaux & Fontaines, tant Natvrelles qv ar- | tificielles des Fleueus, Puits Cister- | nes, Estâgs, Marex & autres Eaux dou- | ces de leur origine, bonté, & autres | qualitez. | De L'Alchimie Des Me- | taux, de l'Or potable, du Mitridat, des | glaces, des sels vegetatifs ou generatifs, | du sel commun. Description des Marex | salans. Des pierres tant communes, que pre- | tieuses. Des causes de leur generation, for- | mes, couleur, pesanteur & qualitez a'icel- | des, des terres d'argille, de l'art, de la texte, de son vtilité, & du seu, de la mar- | ne, & le moyen de la cognoistre. | Par M. Bernard Palissy Inuen- | teur des Rustiques figulines du Roy. | [ornament] | A Paris, | Chez Robert Foüet, ruë S. Jacques | à l'Occasion deuant les Mathurins. | [rule] | M. DC. XXXVI. | Avec Privilege dv Roy.

2 parts bound in one volume. [Part 1] 8°: a<sup>8</sup> A-N<sup>8</sup>; 137ℓ.; [16], 1-255, [3] p. [Part 2] 8°: a<sup>8</sup> A-I<sup>8</sup> 2K<sup>7</sup>; 271ℓ.; [16], 1-526 p. Woodcut headpieces and initials. PAGE SIZE: 164 x 104 mm.

CONTENTS: [Part 1] [2 pgs], Title page, verso blank.; [10 pgs], "Epistre | De L'Avthevr | Av Pevple François" — signed Bernard Palissy.; [1 pg], "Les | Principavx Traitez | de ce Livre."; [1 pg], "FB. A.M. Bernard Palissy, ..."; [1 pg], "Av Lectevr. Salut."; [1 pg], "Extraict du Priuilege du Roy."; 1-255, Text.; [3 pgs], Blanks.

[Part 2] [2 pgs], Title page, vers blank.; [7 pgs], "A Treshavt Et Tres- | puissant sieur le fire ..."; [5 pgs], "Advertissement | aux Lecteurs."; [1 pg], "Des Principavx Points, | traitez en celliure."; [1 pg], Blank.; [1]-526, Text.

SCARCE. Second edition of each part, first under this title. This is the earliest suggestion that France's economic problems could be solved through technology. This volume contains the second editions of Palissy's two major works, the extremely rare *Recepte Veritable* (1st ed., La Rochelle, 1563) and the *Discours Admirables*.

The first part, from the *Recepte Veritable* deals with agriculture, forestry, gardening and fortification. The second is essentially a reprint with some corrections of the *Discours Admirables*, and discusses a range of topics in hydrology, geology, paleontology, mineralogy, engineering, chemistry and medicine.

REFERENCES: *Freilich Sale Catalog*: no. 421. • NUC. • Ward & Carozzi, *Geology Emerging*, 1984: no. 1718. • Wellcome Catalog (Books): 1, no. 4699.

**3599. 3rd edition, 1777:** Œuvres | De | Bernard Palissy. | Revues Sur Les Exemplaires | De La Bibliotheque Du Roi, | Avec Des Notes. | Par MM. Fauias de Saint Fond, Et Gobet. | [ornament] | A Paris, | Chez Ruault, Libraire, rue de la Harpe. | [ornate rule] | Avec Approbation & Privilege du Roi, | 1777.

4°: π<sup>2</sup> [π<sup>3-4</sup> missing] a-h<sup>4</sup> i<sup>2</sup> A-Yyyy<sup>4</sup> Zzzz<sup>3</sup>; 405ℓ.; [i]-xxvj (i.e., lxxvj), [1]-734 p. The copy examined was missing the portrait of Benjamin Franklin by Saint-Aubin after Cochin and the rare suppressed dedication to Benjamin Franklin. PAGE SIZE: 254 x 188 mm.

CONTENTS: [i-ii], Half title page, "Œuvres | De | Bernard Palissay."; [iii-iv], Title page, verso "Sed cum in officinis Artistarum, ..."; [v-viii], [missing from copy examined; Dedication to Benjamin Franklin and a portrait of Benjamin Franklin]; [ix]-xiiij, "Avertissement."; xiv, "Table Des Traitez."; xv-xxx, "Recherches | Sur | Bernard Palissy."; xxj-lxvj, "Extraits | Des Principaux Auteurs | Qui Ont Parlé | De Palissy."; [lxvii-lxviii], "Approbation.";

lxix-lxxij, "A Tres-Haut Et Tres-Puissant | Sieur le Sire Antoine de Pons."; lxxij-xxvj (i.e., lxxvj), "Advertissement | Aux Lecteurs."; [1]-720, Text.; 721-734, Table | Des Matieres.

SCARCE. Edited by BARTHÉLEMI FAUJAS DE SAINT-FOND and NICOLAS GOBET.

REFERENCES: Brunet: 4, 320. • Caillet, *Manuel*, 1912: no. 8265. • *Freilich Sale Catalog*: no. 420. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 31. • LKG: III 29. • Norman Catalog: 2:1630. • Ward & Carozzi, *Geology Emerging*, 1984: no. ??.

**3600. Works, 1844:** Œuvres Complètes | De | Bernard Palissy, | Édition | Conforme Aux Textes Originaux | Imprimés Du Vivant De L'Auteur; | Avec | Des Notes Et Une Notice Historique | Par Paul-Antoine Cap. | [ornament] | Paris, | J.-J. Dubochet Et Cie, Éditeurs, | Rue De Seine, 33. | [short rule] | 1844.

8°: [2], [i]-xxxix, [1], [1]-437, [1] p.

CONTENTS: [2 pgs], Half title page, "Œuvres Complètes | De | Bernard Palissy," verso "Paris, Imprimé Par Béthune Et Plon."; [i-ii], Title page, verso blank.; [iii], Dedication to Alexandre Brongniart, signed P.-A. Cap.; [iv], Blank.; [v]-xxxix, "Notice Historique | Sur | La Vie Et Les Ouvrages De Bernard Palissy."; [1 pg], "Table Sommaire."; [1], "Recepte Véritable | ..."; [2], "... A.M. Bernard Palissy."; [3]-432, Text.; [433]-437, "Table Alphabétique."; [1 pg], Blank.

RARE Edited by Paul A.G. Cap. This contains a long life of Palissy, together with a translation with commentary of his works.

REFERENCES: NUC.

### 3601. — French, 1863.

Discours admirable de l'art de terre, de son utile, des esmaux et du feu. Geneve, Imprimerie de Jules-Guillaume Fick, 1863.

8°: 44 p. (Introduction by Gustave Revilliod).

VERY SCARCE.

REFERENCES: NUC.

### 3602. — English, 1858 [Biography].

Palissy the Huguenot Potter, a true tale by C.L. Brightwell. Philadelphia, [1858].

8°: 169 p., illus. PAGE SIZE: 178 x 122 mm.

VERY SCARCE. Painstakingly researched and lavishly illustrated throughout with beautifully engraved plates, the work captures the fascinating life and history of Bernard Palissy. Published in Philadelphia by the Presbyterian Board of Publication, (no date, preface is dated 1858).

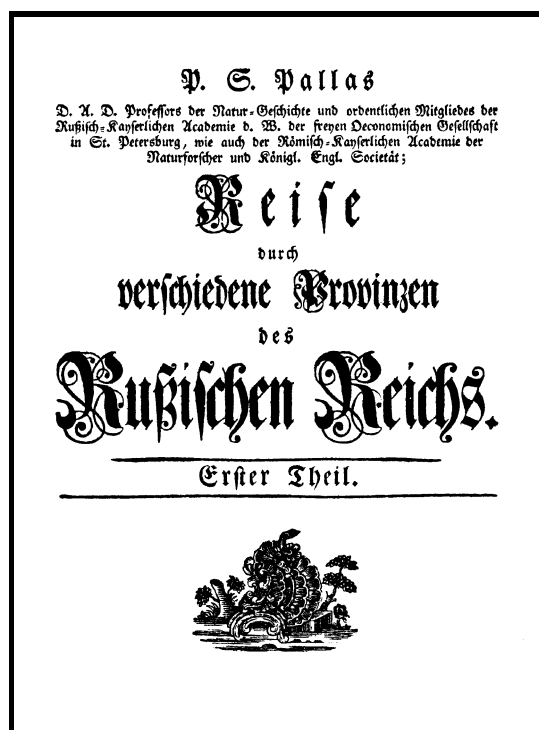
REFERENCES: NUC.

**PALLAS, Peter Simon.** (BORN: Berlin, Germany, 22 September 1741; DIED: Berlin, Germany, 8 September 1811) *German physician & naturalist*.

Pallas was invited by Catherine the Great to work at the Academy of Sciences in St. Petersburg, and consequently had a tremendous influence the development of science in Russia in the 18th century. Pallas was also responsible for establishing the botanical, zoological and geological collections at St. Petersburg. He was one of the most distinguished naturalists of his time.

REFERENCES: ADB: 25, 81. • Barr, *Index to Biographical Fragments*, 1973: 197. • Cleavelly, *World Palaeontological Collections*, 1983: 222-3. • DBA: I 928, 306-319; II 980, 5-9. • Drugulin, *Sechstausend Portraits*, 1863: nos. 4042-5. • DSB: 10, 283-5. • Gilbert, *Deceased Entomologists*, 1977: 286. • Hamberger & Meusel, *Gelehrte Teutschland*, 1796-1834. • Henze, *Enzyklopädie der Entdecker*, 1978.

• Hirsch, *Biographisches Lexikon*, 1884-8. • *ISIS*, 1913-65: 2, 266. • Lambrecht & Quenstedt, *Catalogus*, 1938: 326-7. • Moliavko, *Geologi Biograficheskii*, 1985: p. 203. • Poggendorff: 2, col. 348 & 7a, 485-7. • Sarjeant, *Geologists*, 1980: 3, 1842, Suppl. 1 (1986), 2, 680 & Suppl. 2 (1996), 2, 960-1. • WBI. • Wendland, Folkwart and Karl-Bernhard Jubitz. "Der Beitrag von Peter Simon Pallas (1741-1811) zum Weltbild der Geowissenschaften. Eine Bestandsaufnahme", *Zeitschrift für geologischen Wissenschaften*, 8 (1980), no. 2, 119-33, 2 illus. • Wendland, F., *Peter Simon Pallas, 1741-1811: Materialien einer Biographie*. Berlin; New York, W. de Gruyter, 1992. 2 vols. (xviii, 1176 p.) [Published as: *Veröffentlichungen der Historischen Kommission zu Berlin beim Friedrich-Meinecke-Institut der Freien Universität Berlin*, vol. 80.; ISBN 3110129973; *Biography of Pallas.*] • *World Who's Who in Science*: 1301.



REISE, 1771

### Account of Pallas' First Expedition

**3603. — German, 1771-6** [First edition].

P.S. Pallas | [...4 lines of titles and memberships...] |  
Reise | durch | verschiedene Provinzen | des |  
Rußischen Reichs. | [rule] | Erster Theil. | [rule] |  
[ornament].

3 vols. [VOL 1: 1771] 4°: ):(<sup>4</sup>):( ):(<sup>2</sup> A-Rrr<sup>4</sup>; 258ℓ.; [12], [1]-504 p., 25 plates (incl. maps). [VOL 2: 1773] 4°: ):(<sup>4</sup> A-Aaaaa<sup>4</sup>; 376ℓ.; [8], [1]-744 p., 34 plates (incl. maps). [VOL 3: 1776] 4°: ):(<sup>2</sup>):(<sup>4</sup> 3):( <sup>3</sup> A-Ffff<sup>4</sup> Ggggg<sup>1</sup> \*<sup>1</sup>; 407ℓ.; [22], [1]-760, [32] p., 50 plates (incl. maps).

CONTENTS: [Vol 1] [2 pgs], Title page, verso blank.; [4 pgs], Dedication.; [6 pgs], "Vorrede."; [1], Sectional title page, "Physicalische Reise | durch | verschiedene

Provinzen | des | Russischen Reichs | im 1768 und 1769sten Jahren."; [2], Blank.; [3]-452, Text.; 453-504, "Anhang. | Descriptiones fugitivae animalium atque | plantarum Annis 1768 et 1769 | observatorum."; [At end], 25 plates.

[Vol 2] [2 pgs], Title page, verso blank (dated 1770).; [2 pgs], Title page, verso blank (dated 1771).; [4 pgs], "Vorrede."—dated 19 April 1772.; [1], Sectional title page, "Physicalische Reise | durch | einige Provinzen | des | Russischen Reichs | im 1770sten Jahr. | [rule] | Zweyter Theil."; [2], Blank.; [3]-770, Text.; 701-744, "Anhang | zum zweyten Theil. | Descriptiones Animalium."; [At end], 34 plates.

[Vol 3] [2 pgs], Title page, verso blank.; [20 pgs], "Vorrede."—dated 10 February 1776.; [1], Sectional title page, "Reise | im | ostlichen Sibirien | und bis in | Dauurien. | 1772stes Jahr. | [rule] | Dritter Theil."; [2], Blank.; [3]-690, Text.; 691-760, "Anhang | zum dritten Theil. | Descriptiones Animalium."; | [25 pgs], Indexes.; [1 pg], Errata to part 3.; [6 pgs], Errata to parts 1-2.; [At end], 50 plates.

VERY SCARCE. Pallas was commissioned for a 5 year exploration of southern Russia (1771-6). This important ethnological work describes Pallas' expedition through various provinces of the Russian empire. Descriptions include the people, towns, plants, animals, and mineral resources. The plates show plants, people, animals and maps of the trip.

In 1767 Pallas was invited by Catherine II to work at the St Petersburg Academy of Sciences. During his first years (in Russia) he studied nature and the peoples of the.. empire, participating in the Academic expeditions of 1768-1774. His research as leader of the first Orenburg detachment of the expeditions covered both Russia and Asia. Pallas and his companions journeyed from St Petersburg to Moscow; crossed the Volga at Simbirsk (now Ulyanovsk); and explored the Zhiguli Mountains and the southern Urals, the steppes of western Siberia and the Altay, Lake Baikal, and the mountains of Transbaikalia. The easternmost regions visited were the basins of the Shika and Argun rivers. On his way back to St Petersburg, Pallas studied the Caspian depression and the lower reaches of the Volga. (DSB, 10, p. 283).

Cox I, p. 199: "Pallas was one of the savants chosen by the St. Petersburg Academy to carry on the work of examining the resources of the far distant parts of the Russian Empire. He left St. Petersburg in 1768 and spent a full six years investigating various districts of Siberia, the Urals, the Caspian, Tobolsk, Lake Baikal, the Lower Volga, etc. His reports on the geology, fauna, and flora are of great scientific value. " His journey extended to the frontiers of China. " Few explorations have been as fruitful as this six years' journey" (Ency. Brit.).

**Facsimile reprint, 1967:** *Reise durch verschiedene Provinzen des Russischen Reichs*. Graz, Akademische Druck- und Verlagsanstalt, 1967. 3 vols., and atlas (100 plates, 8 fold. maps).

This facsimile reprint contains at the beginning of volume one a life of Pallas and a bibliography of his writings.

**Abridged edition, 1987:** *Reise durch verschiedene Provinzen des Russischen Reichs Peter Simon Pallas...* [Herausgabe und Bearbeitung des Textes von Marion Lauch]. Leipzig : P. Reclam, 1987. Series: Reclams

## PALLAS

Universal-Bibliothek ; Bd. 1182. 8°: 413 p., 38 p. of plates.

Abridged version of the edition published under the same title by the Kaiserliche Akademie der Wissenschaften, St. Petersburg, 1771-1776. Includes bibliographical references.

REFERENCES: Berg, *Russischen Geographischen Entdeckungen*, 1954. • BL: [984.e.10-12.]. • LKG: XIV 750.

**3604. 2nd edition, 1776-78:** Reise durch verschiedene Provinzen des Russischen Reichs in einem ausführlichen Auszuge P.S. Pallas. Frankfurt und Leipzig, Johann Georg Fleischer, 1776-78.

3 vols., 2 [i.e. 3?] leaves of plates : ill. ; 19 cm. + atlas (76 leaves of plates (copper engravings) : ill. ; 25 x 37 cm.) VERY SCARCE.

REFERENCES: BL: [1049.b.16-18.].

**3605. French transl., 1788-94:** Voyages de M.P.S. Pallas, en différentes provinces de l'empire de Russie, et dans l'Asie septentrionale; traduits de l'Allemand, par M. Gauthier de la Peyronie. Paris, Lagrange/ Maradan, 1788-94.

5 vols. plus atlas. [VOL 1] 4°: [4], xxxii, 773, [3] p; [VOL 2] 4°: [4], 550, [2] p. [VOL 3] 4°: [6], 491, [3] p. [VOL 4] 4°: [6], 722, [2] p. [VOL 5] 4°: [6], 559, [5] p. [Atlas] Large 4°: [4] p., 124 mostly folded engraved plates and maps (printed on 108 leaves) including one double-sheet folding map of Russia. PAGE SIZE: (Text) 250 x 187 mm. (Atlas) 327 x 234 mm.

SCARCE. French translation from the German original (1771-76); the atlas is taken from the enlarged 8vo edition. Pallas' expedition which took him six years to complete, proved to be one of the richest of the whole century regarding scientific results, being considerable importance for the ethnology, geography, linguistics, botany, zoology, and geology of Asia, especially Siberia. More than half the plates show plants; among the maps is the fine large one of the Russian Empire, measuring 57 x 127 cm.

This French translation contains, in addition to the narrative, the natural history results of the expedition which were not included in the first German edition.

Significant work on RUSSIA at the time of the large Catherine, translated from the German by Gauthier de Peyronie, clerk of the Foreign Affairs. " VOYAGE undertaken by 7 Russian astronomers and geometers having for goal the observation of the Venus passage on the solar disc. Catherine II considered it necessary to send with them 5 naturalists capable to explore a still unknown country. The voyage lasted 6 long years during which, the course of Laïk, the edges of the Caspian Sea, the lake Baikal to the Chinese border was explored. Forwarding returned overpowered sufferings, continuation of a so painful course. Almost none of his/her companions lived long enough to give him even its relation and it was Pallas which redoubled activity to return this care to their memory by this great work made up according to the manuscripts communicated by the unit of the participants in this exceptional scientific voyage which contains exact observations and facts interesting and curious on the natural History, the Minerals, Botany, physics, Astronomy and all that relates to Manners, the Uses, the habits, the Religions, the languages, the Traditions, the Monuments and Antiquities, etc " (universal Biography of Michaud. - Quérard, "Literary France" T-vi.569. - Nissen, 3076; To stop from Richarde, II, 10; Monglond, III, the 166.) Atlas is "QUITE COMPLETE" of its boards as well as very large extendible chart (1,23m X 0,60m) of "the Empire of Russia" which often misses. Uniform binding of the time, full calf for five volumes of text, in half-binding for the Atlas. Back with 5 nerves partitioned and blossomed, nets on the dishes, marbrées.(Quelques sections rednesses in the text.) BEAUTIFUL SPECIMEN.

REFERENCES: BL: [151.d.10-14.]. • Cox, *Guide to the Literature of Travel*, 1948-50: 1, p. 199. • LKG: XIV 752b.

**3606. French transl., 2nd edition, 1793-4:** Voyages du professeur Pallas, dans plusieurs provinces de l'empire de Russie et

dans l'Asie septentrionale; Traduits de l'allemand par le C. Gauthier de la Peyronie. Nouvelle Édition, Revue et enrichie de Notes par CC. Lamarck ... et Langlès... Paris, Maradan, 1793-1794.

8 vols. of text and one atlas. With 8 title-pages and 8 half-titles, 108 engraved plates and maps, of which 22 folding and 2 double-page.

VERY SCARCE. Second French edition, enlarged by Lamarck and Langlès. Pallas' expedition which took him six years to complete, proved to be one of the richest of the whole century regarding the scientific results, being of considerable importance for the ethnology, geography, linguistics, botany, zoology and geology of Asia, especially of Siberia. More than half of the plates show plants; among the maps is the fine large one of the Russian Empire, measuring 57x127cm.

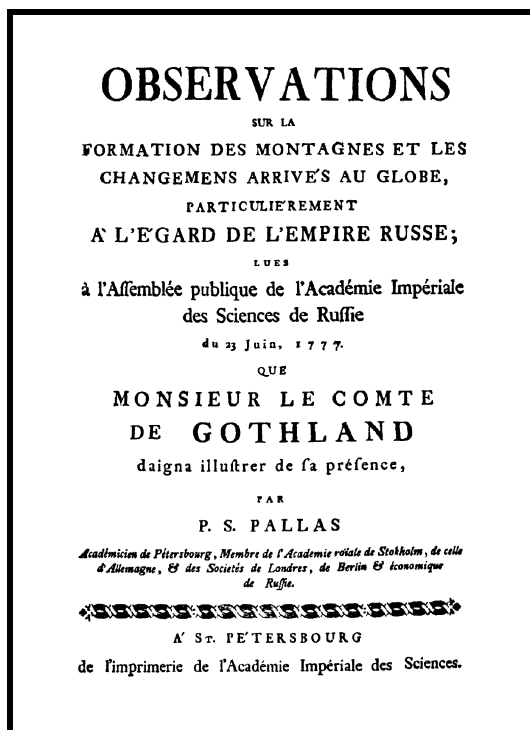
REFERENCES: Abbey, *Scenery of Great Britain 1770-1860*, 1952: 222. • BL: [T 36508.]. • Nissen (ZBI): 3076. • Staffeu & Cowan, *Taxonomic Literature*, 1976-88: no. 7224. • Wood, *Literature of Vertebrate Zoology*, 1931: p. 511.

**3607. — French, 1811.**

Second voyage de Pallas; ou voyages entrepris dans les gouvernements meridionaux de l'Empire de Russie, pendant les annees 1793 et 1794. Traduit de l'allemand par Mm. da la Boulaye, et Tonnelier. Paris, Guillaume; [et] Deterville, 1811.

4 v. : illus. ; 22 cm. and atlas (105 plates) 26 x 40 cm.

VERY SCARCE. Natural history—Russia.



OBSERVATIONS, 1777

**3608. — Latin, 1777.**

Observations | sur la | Formation Des Montagnes  
Et Les | Changements Arrivés Au Globe, |  
Particulierement | À L'Égard De L'Empire Russe;  
| Lues | à l'Assemblée publique de l'Académie  
Impériale | des Sciences de Russie | du 23 Juin,  
1777. | Que | Monsieur Le Comte | de Gothland  
| daigna illustrer de sa présence, | par | P.S. Pallas  
| [...3 lines of titles and memberships...] | [ornate rule]  
A' St. Petersburg | de l'imprimerie de l'Académie  
Impériale des Sciences.

4°: [2], [1]-49, [1] p.

RARE. Observations on the formation of mountains around the globe, but with special attention to the Russian Empire.

Another edition, 1779: *Observations sur la formation des montagnes*, ... St. Pétersbourg, 1779. 12° [BL, 233.c.25.].

Criticism, 1780: *Lettre à M. le Comte de Buffon ... ou, critique et nouvel essai sur la théorie générale de la terre*. Avec une notice du dernier discours de M. Pallas ... sur la formation des montagnes, etc. [By P. M. Bertrand]. Besançon, 1780. 12°. [BL, 8705.aaa.4.; authored by Philippe M. Bertrand].

REFERENCES: BL: [B.350.(2.)]. • LKG: XIII 129.

**3609. — German, 1778.**

Betrachtungen über die Beschaffenheit der Gebürge und Veränderungen der Erdkugel, besonders in Beziehung auf das Russische Reich. Vorgelesen in der öffentlichen Versammlung der Russisch-Kaiserlichen Akademie der Wissenschaften den 23ten Junius, 1777, ... Frankfurt und Leipzig, 1778.

8°: 112 p. VERY SCARCE.

Facsimile reprint, 1986: *Über die Beschaffenheit der Gebirge und die Veränderungen der Erdkugel (1777) von Peter Simon Pallas*. Mit Erläuterungen von Folkwart Wendland. Leipzig, Geest & Portig, 1986. 8°: 112 p., illus. [Published as: *Ostwalds Klassiker der exakten Wissenschaften*, Band 269.]

REFERENCES: BL: [T.876.(5.)]. • LKG: XIII 130a.

**3610. — German, 1781-96 [Periodical].**

Neue Nordische Beiträge zur physikalischen und geographischen Erd- und Volkerbeschreibung, Naturgeschichte und Okonomie. Herausgegeben von Peter Simon Pallas. St. Petersburg und Leipzig, Bey Johann Zacharias Logan. 1781-1796.

7 vols. [VOL 1: 1781] 8°: [8], 342 p., 4 folded plates, illus., map. [VOL 2: 1781] 8°: [6], 375., 5 folded plates, illus., plan. [VOL 3: 1782] 8°: [2], 409, [1] p., 4 folded plates, illus., 2 maps. [VOL 4: 1783] 8°: [2], 404 p., 3 folded plates, illus., map. [VOL 5: 1793] 8°: [4], 343 p., 5 folded plates, illus., 2 maps. [VOL 6: 1793] 8°: [4], 343 p., 5 folded plates, illus., 2 maps. [VOL 7: 1796] 8°: 447 p., 1 folded plate, illus. VERY SCARCE.

REFERENCES: BL: [Mic.F.232]. • LKG: VI 33a.

**3611. First edition, 1788:** Description physique de la contree de la Tauride, relativement aus trois regnes de la nature : pour servir de suite a l'histoire des decouvertes faites par divers savans voyageurs dans plusieurs contrees de la Russie & de la Perse, &c, publiee en 1779. a Berne & La

Haye traduite du russe, et enrichie de notes. La Haye, Chez J. van Cleef, 1788.

8°: \*8 A-S8 T5; 153L.; viii, 298 p. Includes bibliographical references.

VERY SCARCE. Translation of: *Fizicheskoe opisanie Tavricheskoi oblastipo ee mestopolozheniiu i po vsem trem tsarstvam prirody*. "Translated by and sometimes attributed to D.A. Golitsyn"—NLM, 18th cent. Also variously attributed to Karl Ivanovich Gablits (by *Svodnyi Katalog russkoi knigi XVIII veka, 1725-1800, 1962-1975*. no. 1204) and to Peter Simon Pallas (cf. p. [iii]-viii)

**Account of Pallas' Second Expedition****3612. — German, 1799-1801 [First edition].**

Bemerkungen auf einer Reise in die sudlichen Statthalterschaften des russischen Reichs in den Jahren 1793 und 1794. Leipzig. 1799-1801.

2 vols. plus atlas. [Vol 1: 1799] 4°: xxxii, 516 p.; [Vol 2: 1801] 4°: xxiv, 525 p. [Atlas] 2°: 55 plates and maps.

VERY SCARCE. Pallas' second trip (1793-4) through the Russian empire, particularly involving the Black Sea and Crimean environs. Catherine gave him property in the Crimea, as a reward for services.

REFERENCES: Berg, *Russischen Geographischen Entdeckungen*, 1954. • BL: [983.d.11.]. • LKG: XIV 751a.

**3613. French transl., 1799-1801:** Observations faites dans un Voyage entrepris dans les Gouvernements Méridionaux de l'Empire de Russie, dans les années 1793 et 1794. Traduit de l'Allemand. Avec planches enluminées. Leipzig, 1799-1801.

2 vols. 4°: VERY SCARCE.

REFERENCES: BL: [794.h.34.]. • LKG: XIV 753c.

**3614. French transl., 2nd edition, 1805-11:** Voyages | Entrepris | Dans Les Gouvernemens | Méridionaux | De L'Empire De Russie, | Dans Les Années 1793 Et 1794, | Par M. le Professeur Pallas. | Traduits De L'Allemand | Par MM. Delaboulaye et Tonnelier, Docteur en Médecine de la Faculté de Gottingue | [...2 lines of titles and memberships...] | Avec illustrés de 28 gravures Hors-texte un Atlas de 55 planches. | Tome Premier. | A Paris, | Chez Deterville, ... | [rule] | M DCCC V.

2 vols. and atlas. [VOL 1] 4°: ?? p. [VOL 2] 4°: ?? p. [Atlas] 4°: PAGE SIZE: 260 x 210 mm.

VERY SCARCE. LABOULLAYE-MARILLAC. de // TONNELIER. Jacques

REFERENCES: BL: [G.7374-76.].

**3615. English transl., 1802-3:** Travels through the southern provinces of the Russian empire, in the years 1793 and 1794. Tr. from the German of P. S. Pallas ... London, Printed by A. Strahan for T.N. Longman & O. Rees ..., 1802-1803.

2 vols. 4 folding maps, 51 engraved and aquatint plates (43 finely hand-coloured), and 28 engraved vignettes in the text (23 finely hand-coloured).

VERY SCARCE. Translated by Francis W. Blagdon of *Bemerkungen auf einer Reise in die südlichen Statthalterschaften des Russischen Reichs* (1799-1801). Handcolored engraved plates and vignettes, mostly by G. Geissler.

A magnificent copy of the first English edition of Pallas's 1793-1794 journey through Russia with illustrations in aquatint. Peter Simon Pallas (Berlin 1741-1811) was an eminent botanist, zoologist and geographer, who travelled through southern Russia, the area of the steppes near the Caspian Sea, the northern Caucasus and the Crimea in 1793-94. In his account, which appeared in German in 1799-1801, he described the flora and fauna, landscape, geology, local population, and culture.

## PANAROLI

The second volume contains the dedication to Czar Alexander.

Cat. Russica P-59.

REFERENCES: Abbey, *Travel in Aquatint 1770-1860*, 1956: 222. • BL: [V 9820.]. • Nissen (ZBI): no. 3065. • Tooley, *English Books*, 1973: no. 357.

**3616. English transl., 1803:** Travels through the Southern Provinces of the Russian Empire performed in the years 1793 and 1794 by P.S. Pallas, Councillor of State to the Emperor ... Translated from the German without abridgement, by Francis Blagdon. London, 1803.

4 vols. [VOL 1] xxiv, 336 p. [VOL 2] ix, 368 p. [VOL 3] xv, 362 p. [VOL 4] xix, 352 p., plates.

VERY SCARCE. In: Blagdon (F. W.) *Modern Discoveries*, etc. vol. 5-8. 1802, etc. 16°.

REFERENCES: BL: [1424.b.25-28.].

**3617. English transl., 1812:** Travels through the southern provinces of the Russian Empire, in the years 1793 and 1794 translated from the German of P.S. Pallas. Second edition. London, Printed for John Stockdale, 1812.

2 vols. 8°.

SCARCE. Translation of: *Bemerkungen auf einer reise in die sudlichen statthalterschaften des Russischen reichs in den jahren 1793 und 1794* (1799-1801).

Reprint editions: New York, Arno; New York Times, 1970.

REFERENCES: BL: [10290.g.14.].

### Tableau de Tauride

**3618. — Russian, 1795** [First edition].

Kratkoe fizicheskoe i topograficheskoe opisanie Tavricheskoi oblasti sochinennoe na Frantsuzskom iazykie Petrom Pallasom, Statskim Sovietnikom, Akademii Nauk chlenom, Ordena Sv: Vladimira Kavalerom, i perevedennoe Ivanom Rizhskim. Sanktpeterburg : pechatano v Imperatorskoi Tipografii, 1795.

72 p.

VERY SCARCE. Tables on the physical and topographical aspects of the province of Tauride, extracted as a separate publication from the Pallas's *Bemerkungen auf einer Reise in die sudlichen Statthalterschaften des russischen Reichs* (1799-1802).

REFERENCES: *Svodnyi Katalog Russkoï Knigi*: no. 5112.

**3619. French transl., 1795:** Tableau physique et topographique de la Tauride, tiré du journal d'un voyage fait en 1794 par P.S. Pallas ... St. Petersburg, 1795.

8°: 148 p. VERY SCARCE.

Other edition: Nouv. ed. Leipz.: 1806.

REFERENCES: BL: [B.303.(3.)]. • LKG: XIV 754d.

**3620. German transl., 1796:** Physikalisch - topographisches Gemalde von Taurien. Ein Auszug aus dem Tagebuche der vom Verf. im J. 1794 gemachten Reise. Neue Ausgabe. Leipzig, 1806.

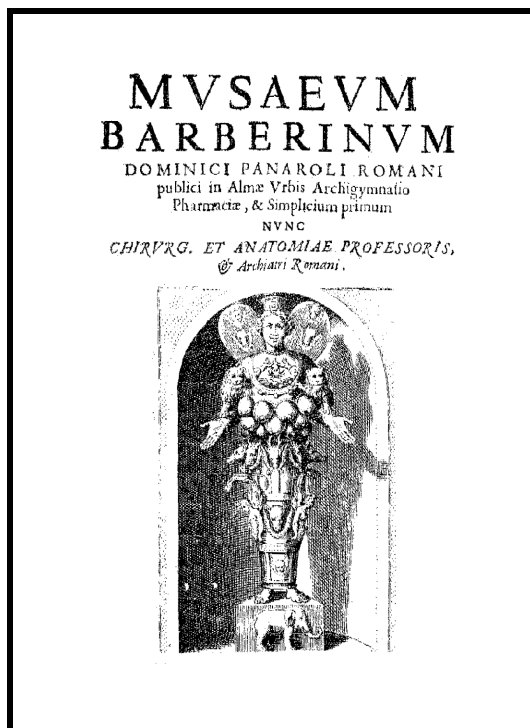
8°: VERY SCARCE.

REFERENCES: LKG: XIV 755e.

**PANAROLI, Domenico.** (BORN: 1587; DIED: Rome, Italy, 1657) *Italian botanist & physician.*

Panaroli was professor of botany at the University of Rome. Built in the first century AD, the Colosseum housed Gladiatorial combat until the sixth century. By 1643, when Italian doctor Domenico Panaroli compiled the first plant survey, *Plantarum Amphitheatrium Catalogus*, the Romans had made themselves at home. "It was full of people living and working, and a hideout for thieves," says Giulia Caneva of the University of Rome.

REFERENCES: ABI: I 736, 183-185. • Jöcher, *Gelehrten-Lexikon*, 1750-51. • Pritzel, *Thesaurus Literaturæ Botanicae*, 1871-3: p. 239. • WBI.



MUSAEUM BARBARINUM, 1656

**3621. — Latin, 1656** [Collection catalog].

Mvsaevm | Barberinvm | Dominici Panaroli Romani | publici in Almæ Vbis Archigymnasio | Pharmaciæ, & Simplicium primum | Nvnc | Chirvrg. Et Anatomia Professoris, | & Archiatri Romani. | [Ornament showing the Roman god Dionysus, god of wine and festival].

4°: a-??4 PAGE SIZE: 184 x 144 mm.

CONTENTS: [1-2], Title page, verso blank.; [3], "Eminentissimo, Et Reverendissimo | Principi | Francisco | Card. Barberino | S.R.E. | Vicecancellario."—dated February 1656.; [4], "Sophis Iatris, | omnibusque rariorum | Studiosis."; 5-??, Text.

VERY RARE. This is the catalog of Panaroli's museum. After a dedication to Cardinal Barberino [1568-1644], who became Pope Urban VIII, and a short preface explaining the scope of the collection, the contents of the collection are listed. It is an alphabetical list by item name, with no other information. Panaroli's museum apparently contained stones, gems, various beozaar stornes, plants, preserved animals and fish, etc.

REFERENCES: BL: [812.d.48.]. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 279.

**PANCIROLI, Guido.** (BORN: Reggio Emilia, Italy, 1523; DIED: Padova, Italy, 1599) *Italian jurist & antiquary.*

Panciroli was professor of Roman law at Padua and Turin.

REFERENCES: ABI: I 736, 341-350; II 437, 299. • Eitner, *Quellenlexikon*, 1959. • Gerber, *Historisch-biographisches Lexikon*, 1812-4. • Jöcher, *Gelehrten-Lexikon*, 1750-51. • WBI.

**3622. — Latin, 1599-1602** [First edition].

Rerum memorabilium iam olim deperditarum, & contra recens atque ingeniose inventarum libri duo a Guidone Pancirollo ... ; Italice primum conscripti, nec unquam hactenus editi, nunc vero & Latinitate donati, & notis quam plurimis ... illustrati per Henricum Salmuth. Ambergae, Typis Fosterianis, 1599-1602.

2 vols. [VOL 1] 4°: [15], 752 [i.e., 750], [32] p. [VOL 2] 4°: [20], 719 [i.e., 721], [23] p. PAGE SIZE: 152 x 95 mm.

RARE. An annotated translation by Heinrich Salmuth of the Italian original, that was not published until 1612. Pancirolis gives an account of the inventions and discoveries of the ancients in this popular work. The second volume published in 1602 deals with secrets that were unknown in antiquity but it is rare to find complete sets of the work. Ferguson, although aware of the 1599-1602 edition had seen none before 1631, but describes "Pancirolis work is interesting, not only as giving some notion of the state of knowledge as to the history of invention in his time, but as displaying the attitude of scholars towards the practical arts of the ancients."

REFERENCES: Adams, *Cambridge Books*, 1967: P-139. • Ferguson, *Histories of Inventions*, 1981: part 2, p. 33 & suppl. 1, p. 39. • Wellcome Catalog (Books): 1, no. 4703.

**3623. 2nd edition, 1607-8:** Guidonis Pancirolli Jc. Clariss. Rerum memorabilium libri duo. Quorum prior deperditarum, posterior noviter inventarum Ex Italico Latine redditi, & notis illustrati ab Henrico Salmuth. Editio secunda. Ambergae, Typis Michaelis Forsteri, 1607-1608.

2 vols. RARE.

REFERENCES: LKG: II 1 & 2. • NUC.

**3624. 3rd edition, 1612:** Rerum memorabilium libri duo. Quorum prior deperditarum; posterior noviter inventarum est. Ex Italico Latine redditi, & notis illustrati ab Henrico Salmuth. Editio tertia. Ambergae, Typis M. Forsteri, 1612.

2 vols. RARE.

REFERENCES: Wellcome Catalog (Books): 1, no. 4704.

**3625. 1629-31:** Guidonis Pancirolli Rerum memorabilium sive deperditarum, pars prior [et posterior] commentarijs illustrata, et locis prope innumeris postremum aucta, ab Henrico Salmuth ... Francofurti, Sumptibus Godefridi Tampachij, [1629]-1631.

2 vols. RARE.

REFERENCES: Wellcome Catalog (Books): 1, no. 4705.

**3626. 1630-2:** Guidonis Pancirolli Rerum memorabilium, sive, Deperditarum commentarijs illustrata, et locis prope innumeris postremum aucta ab Henrico Salmuth ... Francofurti, sumptibus Godefridi Tampachij, [1630?]-1631.

2 vols. RARE.

REFERENCES: NUC.

**PANNIER, Léopold Charles Augustin.** (BORN: 1842; DIED: 1875) *French classical scholar.*

**3627. — French, 1882.**

Les | Lapidaires Français | du Moyen Age | Des XIIe, XIIIe et XIVe Siècles | Réunis, Classés Et Publiés | Accompagnés De Préfaces, De Tables Et D'Un Glossaire | Par | Léopold Pannier | Ancien élève de l'école des Chartres et de l'école des Hautes Études | Avec Une Notice Préliminaire | Par Gaston Paris | [ornament] | Paris | F. Vieweg, Libraire-Editeur | 67, Rue De Richelieu, 67 | [rule] | 1882.

8°: [4], [i]-xi, [1], [1]-340, [2] p. PAGE SIZE: 212 x 152 mm.

CONTENTS: [2 pgs], Half title page, verso printer's information.; [2 pgs], Title page, verso blank.; [i]-xi, "Notice Préliminaire."—dated 28 May 1882.; [1 pg], Blank.; [1]-297, Text.; [298]-302, "Appendice."; [303]-308, "Liste Des Pierres De Marbode."; [309]-311, "Table Des Noms Propres."; [312]-340, "Glossaire."; [1 pg], "Table Des Matières."; [1 pg], "Errata."

VERY SCARCE. Divided into two sections the text translates and provides commentaries on various early French lapidaries from manuscripts. The first section describes those works derived from 'Oriental Lapidaries' or Near-Eastern sources and includes a long discussion of Marbode and valuable information on Mandeville. The second part describes the 'Christian Lapidaries' that are derived from descriptions of the twelve gemstones contained in the breastplate of the High Priest, as well as other stones mentioned in the Bible.

Facsimile reprint, 1973: Genève, Slatkine Reprints, 1973. [4], [i]-xi, [1], [1]-340, [2] p.

REFERENCES: Sinkankas, *Gemology Bibliography*, 1993: no. 4955.

**PANSNER, Johann Heinrich Lorenz von.** (BORN: Arnstadt, Erfurt, Germany, 3 May 1777; DIED: Arnstadt, Erfurt, Germany, 22 March 1851) *German philosopher scientist.*

Doctor of philosophy; worked as private docent at the University of Jena, then as a private tutor in St. Petersburg; director of the Handel School in St. Petersburg until 1836, when he retired to his birth city; member of the Academy of Sciences at St. Petersburg.

REFERENCES: DBA: I 930, 163-168; II 981, 78. • Eitner, *Quellenlexikon*, 1959. • Gerber, *Historisch-biographisches Lexikon*, 1812-4. • Hamberger & Meusel, *Gelehrte Teutschland*, 1796-1834. • Margerie, *Bibliographies Géologiques*, 1896. • Poggendorff: 2, col. 352. • WBI.

**3628. — French & German, 1802.**

Dictionnaire minéralogique François — Allemand ... avec un index allemand, par Jean Henri Laurent Pansner, Jena et Leipzig: C.E. Gabler, 1802.

[ANOTHER TITLEPAGE]

Französisch — deutsches mineralogisches Wörterbuch, oder Namensverzeichnis der Mineralien in alphabetische Ordnung, mit einen deutschen Register ... Jena, C.E. Gabler (Enobloch in Leipzig),

## PARACELSUS

1802.

8°: [i]-xvi, [1]-254 p.

RARE. Dictionary – mineralogical.

REFERENCES: CBN: 129, 841. • LKG: VII 6 & 7a.

### 3629. — German, 1813.

Resultate der Untersuchungen über die Härte und specifische Schwere der Mineralien. Ein Beitrag zu genauern oryktognostischen Beschreibungen und zu einer neuen systematischen Anordnung der Mineralien. St. Petersburg, F. Drechsler, 1813.

8°: [1]-33, [1] p.

EXTREMELY RARE. Determinative mineralogy – physical properties – hardness.

REFERENCES: BL: [no copy listed]. • NUC: [no copy listed]. • Partsch, *Katalog der Bibliothek*, 1851: no. 158.

### PANTHEO, Giovanni Agostino.

### 3630. — Latin, 1519.

Ars transmutationis metallica cu Leonis X. ponti. max. et conc. capi. decemvirum Venetorum edicto. [Venetiis.] In aedibus Ioannis Tacuini impressorum accuratissimi Venetiis editum, 1519.

4°: A-E<sup>4</sup> F<sup>6</sup> G-I<sup>4</sup>; 38 numbered l., illus.

COLOPHON: on the verso of leaf 26 dated 1518. RARE.

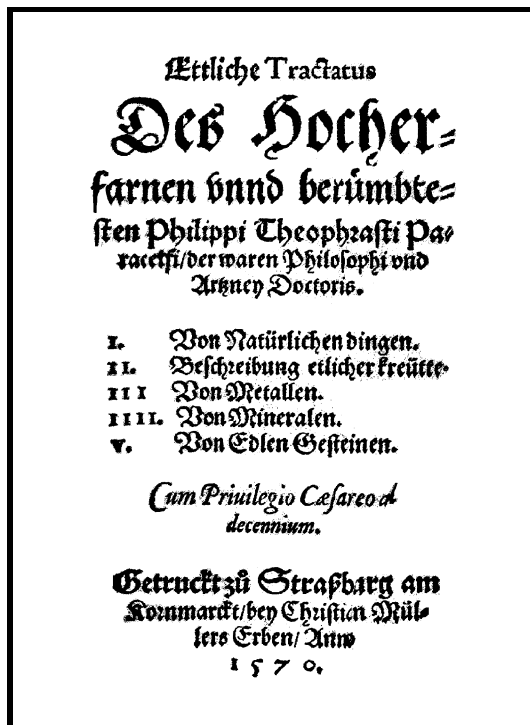
REFERENCES: Ferguson, *Bibliotheca Chemica*, 1906: 2, p. 167n. • Hoover Collection: no. 623. • Stillwell, *Awakening Interest in Science*, 1970: 866.

**PARACELSUS.** (BORN: Sihlbrücke, near Einsiedeln, Switzerland, 10 November 1493; DIED: Salzburg, Austria, 24 September 1541) *Swiss physician & alchemist.*

Paracelsus is also known as Theophrastus von Hohenheim, Eremita (of Einsiedeln), and Theophrastus Bombastus von Hohenheim. It is now established that the family originally came from Württemberg, where the noble family of Bombastus was in possession of the ancestral castle of Hohenheim near Stuttgart until 1409; Paracelsus is the Latin form in common use among the German scholars of the time. Among his teachers, Paracelsus mentions a prolonged interval spent in the laboratories of Sigmund Fugger at Schwaz who made him familiar with metallurgy. All his life restless and eager for travel, he attended the most important universities of Germany, France, and Italy, and, in 1526, went to Strasburg, where, already a doctor. His teaching, as well as his opposition to the prevailing Galeno-Arabic system, the burning of Avicenna's writings in a public square, the polemical tone of his discourses, which, contrary to all custom, were delivered in German, his dissensions with the faculty, attacks on the greed of apothecaries, and to a certain extent, also, his success as a practitioner—All drew upon him the hatred of those in authority. In February he fled from Basle to Colmar.

REFERENCES: Aberle, G., *Schädel und Abbildungen des Theophrastus Paracelsus*. Salzburg, 1891. • DBA: I 558, 176; 931, 276-350; II G 6, 6-10; 982, 197-304. • *Encyclopaedia Britannica*, 11th edition. • Ferguson, *Bibliographia Paracelsica*, Glasgow, 1877. • *Great Chemists*: 47-64, portrait. • Hartmann, *The Life of Paracelsus and the Substance of his Teachings*, London, 1886. • Jaffe, *Crucibles: The Great Chemists*, 1936: 18-33, portrait. • Meixner, *Mineralogischen Erforschung Kärntens*, 1951: p. 17. • Mook, *Theophrastus Paracelsus*, Würtzburg, 1876. • *Nouvelle Biographie Générale* (Hoefer). • Poggendorff: 2, col. 357. • Schaedler, *Biographisch Handwörterbuch*, 1891: 87-8. • Strunz, *Theophrastus Paracelsus sein Leben und*

*Persönlichkeit*, Leipzig, 1903. • Sudhoff, Karl., "Ein Beitrag zur Bibliographie der Paracelsisten im 16. Jahrhundert," *Centralblatt für Bibliothekswesen*, 10 (1893), 316-26 & 385-407. • WBL.



ETTLICHE TRACTATUS, 1570

### 3631. — German, 1570 [First edition].

Ettliche Tractatus | Des Hoher= | farnen vnnnd | berühmte= | sten Philippi Theophrasti Pa= | racelsi/ der waren Philosophi vnd | Artzney Doctoris. | I. Von Natürlichen dingen. | II. Beschreibung etlicher kreütter. | III Von Metallen. | IV. Von Mineralen. | V. Von Edlen Gesteinen. | Cum Piruilegio Cæsareo ad | decennium. | Getruckt zu Straßburg am | Kornmarckt/ bey Christian Mül= | lers Erben/ Anno | 1570.

8°: \*8 A-Z<sup>8</sup> Aa-Kk<sup>8</sup> Ll<sup>2</sup>; 274l.; [16], 1-532 p. PAGE SIZE: 151 x 92 mm.

CONTENTS: [2 pgs/=\*1], Title page, verso blank.; [4 pgs/=\*2r-\*3v], "Privilegium."—dated 25 September 1568.; [10 pgs/=\*4r-\*8v], Dedication.; 1-391, "Das Büch von natürlichen dingē."; 391-457, "Zwen tractat von Mineralibus, das ist, von fruchten des wassers, des Hochgelehrten Philippi Theophrasti Bombast von Hohenheym, der Philosophie, beyder artzney Doctoris. Alles auss seiner eygen Handtschrifft mit sonderm fleiss vnd arbeyt dargethon."; 458-532, "Philosophie Theophrasti Paracelsi das viert vuch, vō Element wasser, vnd seinen fruchten, aussgetheylt in fünff Tractat. Das ist von Metallen, Mineralien, Saltzen vnd gesteinen, &c. Alles auss Theophrasti handtschrifft mit sonderm fleiss an tag geben."

VERY RARE. Edited by Michael Toxites [see note below] from previous publications and previously unpublished manuscript material. The text begins with a long section describing various “natural things.” This is divided into 17 chapters describing: (1) turpentine, (2) the black and white varieties of the medicinal hellebore plant, (3) “Wasserblüt,” (4) salt and its compounds, (5) the Saint James Wart, (6) the magnet, which predates William Gilbert by 30 years, (7) sulfur, (8) vitriol, (9) arsenic, (10) a further tract on turpentine, (11) honey and its varieties, (12) descriptions of various herbs, (13) “Persicaria,” (14) salt and its manufacture, (15) the English Thistle, (16) coral, and (17) the manufacture of magnets. Two tracts published from manuscript material concerning minerals and mineral waters follow. Finally, descriptions of elemental water (in the Aristotelian element sense), metals, minerals, salts, and precious stones close the work.

The Paracelsian view expounded throughout all of his works is that metals and minerals are formed and grown within the earth, each in its own time, from congealing elemental water and comprise: (1) metals, (2) gems, (3) salts, (4) mineral springs, (5) silver and golden marcasites, (6) common stones, including marble, slate, alabaster and jasper, (7) sulfurous earths such as yellow (amber) and black (jet), and (8) coral, eagle-stone, most petrifications and ‘lusta naturae’ (sports of nature). The colors of gems are due to included metal impurities, thus the green of emerald comes from copper, golden hue of carbuncle due to gold, red of ruby to iron, blue of sapphire to silver, white sapphire to tin, hyacinth to mercury, and each in turn corresponding to particular planet. This is where each substance derives its medicinal virtue.

Paracelsus’ view on the generation of metals, stones and minerals owes much to the Arabic authors. He criticised the old theory that they were composed of only mercury and sulfur, believing that salt also entered into their composition. He recognized seven metals, corresponding with the planets, of both male and female types, thus iron was female while steel was male. He recognized that many undiscovered metals might exist.

**Michael Toxites.** (BORN: Stoerzingen, Graubünden, Germany, 1515; DIED: Hagenau, Germany, 1581) *German physician.* Toxites studied at the University of Tübingen, where for a long period he was also an instructor. After he made a tour of Italy, Toxites was named the city physician of Hagenau, where he remained the rest of his life. He was a liberal thinker, and is best known for his commentaries on the work of Paracelsus.

REFERENCES: *Freilich Sale Catalog*; no. 424. • NUC: 440, 587-605 [NP 0073257]. • Partington, *History of Chemistry*, 1961-70: 2, 115-51, portrait. • Sudhoff, *Bibliographia Paracelsica*, 1894: no. 120. • Wellcome Catalog (Books): 1, no. 4780. (Toxites) Hirsch, *Biographisches Lexikon*, 1884-8: 5, 709. • Jöcher, *Gelehrten-Lexikon*, 1750-51. • Sudhoff, Karl., “Ein Beitrag zur Bibliographie der Paracelsisten im 16. Jahrhundert,” *Centralblatt für Bibliothekswesen*, 10 (1893), 316-26 & 385-407.

**3632. 2nd edition, 1582:** [In black:] Etliche Tractat | [in red:] Philippi Theo= | phrasti Paracelsi/ des be= | [in black:] rümbtesten vnd hocherfarnen der | wahren Philolosophey vnd | Artzney Docton. | I. Von Natürlichen dingen. |

II. Beschreibung etlicherer Kreutter. | III. Von Metallen. | IIII. Von Mineralen. | V. Von Edlen Gesteinen. | [in red:] Jtzt |!] wider von newem auß Theo= | [in black:] phrasti Handschrift mit fleiß | vbersehen vnd Corrigirt. | Cum gratia & Priuilegio Cæsareo. | [in red:] Getruckt zu Straßburg/ durch | [in black:] Christian Müllers Erben. | M. D. LXXXII.

8°: A-Z<sup>8</sup> Aa-Ii<sup>8</sup> Kk<sup>4</sup>; 260ℓ.; [12], 1-499 (i.e., 507), [1] p. Pages 162-163 and 446-451 are repeated in the sequence. Title page in red and black. PAGE SIZE: 155 x 100 mm.

CONTENTS: [2 pgs/=A1], Title page, verso blank.; [10 pgs/=A2r-A6v], “Vorrede—signed, Michael Toxites, 1 March 1570.; 1-369, Das Büch Von Natürlichen dingen.; 370-432, Zwen Tractat vonn Mineralibus.; 433-499 (i.e., 507), Das vierdt Büch, vom Element wasser.; [1 pg/=Kk4v], Blank.

VERY RARE. Usually considered rarer than the first edition of 1570, this work is essentially a reprint of the original edition with the text completely reset.

REFERENCES: *Freilich Sale Catalog*: no. 424A. • NUC: 440, 587-605 [NP 0073251]. • Sudhoff, *Bibliographia Paracelsica*, 1894: no. 192.

**3633. 3rd edition, 1587:** Etliche Tractat Philippi Theophrasti Paracelsi, des berühmtesten vnd hocherfarnen der wahren Philolosophey vnd Artzney Docton. I. Von Natürlichen Dingen. II. Beschreibung etlicher Kreutter. III. Von Metallen. IIII. Von Mineralen. V. Von Edlen Gesteinen. Jetzt von newem auß Theophrasti Handschrift mit fleiß wider vbersehen vnd Corrigirt. Cum gratia & Priuilegio Cæsareo. Getruckt zu Straßburg, durch Antonium Bertram. M.D.LXXXVII.

8°: A-Z<sup>8</sup> Aa-Ii<sup>8</sup> Kk<sup>4</sup>; 260ℓ.; [12], 1-499 (i.e., 507), [1] p. Pages 162-163 and 446-451 are repeated in the sequence. Title page in red and black.

CONTENTS: [2 pgs/=A1], Title page, verso blank.; [10 pgs/=A2r-A6v], “Vorrede—signed, Michael Toxites, 1 March 1570.; 1-369, Das Büch Von Natürlichen dingen.; 370-432, Zwen Tractat vonn Mineralibus.; 433-499 (i.e., 507), Das vierdt Büch, vom Element wasser.; [1 pg/=Kk4v], Blank.

RARE. Essentially a reprint of the 1587 edition with a new imprint on the title page.

REFERENCES: NUC: [no copy listed]. • Sudhoff, *Bibliographia Paracelsica*, 1894: no. 214.

**3634. 4th edition, 1597:** Etliche Tractat Philippi Theophrasti Paracelsi, des berühmtesten vnd hochersarnen der wahren Philosophy vnd Artzney Docton. I. Von Natürlichen dingen. II. Beschreibung etlicher Krüter. III. Von Metallen. IIII. Von Mineralien. V. Von Edlen Gesteinen. Jetzt wider von newem auß Theophrasti Handtschrift mit fleiß vbersehen vnd Corrigirt. Getruckt zu Straßburg, durch Antonium Bertram. M.D.XCVII.

8°: A-Z<sup>8</sup> Aa-Ii<sup>8</sup> Kk<sup>4</sup>; 260ℓ.; [12], 1-499 (i.e., 507), [1] p. Pages 162-163 and 446-451 are repeated in the sequence. Title page in red and black.

CONTENTS: [2 pgs/=A1], Title page, verso blank.; [10 pgs/=A2r-A6v], “Vorrede—signed, Michael Toxites, 1 March 1570.; 1-369, Das Büch Von Natürlichen dingen.; 370-432, Zwen Tractat vonn Mineralibus.; 433-499 (i.e., 507), Das vierdt Büch, vom Element wasser.; [1 pg/=Kk4v], Blank.

RARE. Essentially a reprint of the 1587 edition with a new title page.

REFERENCES: NUC: 440, 587-605 [NP 0073252]. • Sudhoff, *Bibliographia Paracelsica*, 1894: no. 241.

**3635. — German, 1616-8** [Collected works].

Opera. Buecher und schrifftten ... [bound with] Chirurgische Buecher und Schrifftten. Strassburg, Lazarus Zetzner, 1616 & 1618.



## PARSONS

3 vols in one. (2nd work in 4 parts.). \*6, a-z6, A-Z6, Aa-Zz6, AA-ZZ6, 3A-3D6, 3F8; (:):4, a-z6, A6(but lacking A5), B-2M6; ):(6, A-L6, M-N4, O-2D6, 2E8, 2F-2U6, 2X8, 2Y-3Y6, 3Z-4A4. Two title-pages with elaborate woodcut architectural borders. Woodcut portrait of Paracelsus. Illustrated with some diagrams and woodcut illustrations (particularly in magic section) and typographic tables. (folio). PAGE SIZE: 12 1/2x7 3/4 in.

**RARE.** Edited by Johannes Huser. Massive collected edition of Paracelsus's works; very rare, and one of the most important texts in the transition from medieval to modern medicine. "Paracelsus is a phenomenon in the history of medicine, a genius tardily recognized, who in his impetuosity sought to overturn the old order of things, thereby rousing bitter antagonists..." Paracelsus firmly opposed the humoral theory of disease championed by Galen, advocated the use of specific remedies for specific diseases, introducing many chemicals (e.g., laudanum, mercury, sulfur, iron, and arsenic) into use as medicines; and noted relationships such as the hereditary pattern in syphilis and the association of cretinism with endemic goiter and of paralysis with head injuries. Paracelsus was a violent reformer who had a hot-blooded, polemical style and controversially lectured in German rather than the standard Latin. In his thirties he fled his post in Basle to live the life of a peripatetic visionary: "A typical vagrant, his subsequent life was spent in continual wandering, surrounded by a troop of adventurers, with the reputation of a charlatan, but all the while observing all things with remarkable zeal, and busied with the composition of his numerous works." (Senfelder). This is one of the Huser editions, considered the best of the early collections, but still with some spurious works.

**REFERENCES:** *Catholic Encyclopaedia*. • NLM 17th Century Books (Krivatsy): no. 8558 & 8568. • Sudhoff, *Bibliographia Paracelsica*, 1894: 300-2. • Wellcome Catalog (Books): 1, 4809 & 4812.

### PARAGALLO, Gaspare.

**REFERENCES:** ABI: I 743, 54-55. • Jöcher, *Gelehrten-Lexikon*, 1750-51. • WBI.

### 3636. — Italian, 1705.

*Istoria Naturale del Monte Vesuvio. Divisata in due Libri. Di Gaspare Paragallo...* Napoli, Nella Stamparia de Giacomo Raillard, 1705.

8°: [20], 429, [2] p.

**RARE.** An early detailed study of the natural history of Mount Vesuvius, Europe's most active volcano. Included is information on the minerals found in its vicinity.

**REFERENCES:** Hoover Collection: no. 625. • LKG: XIV 587.

### PARDILLO, Francisco. *Spanish mineralogist.*

**REFERENCES:** Calvo Rebollar, *Bibliografía Mineralogía Españolas*, 1999: p. 217. • *Diccionario Biográfico*: ??. • López Piñero, *Diccionario Histórico*, 1983: 2, ??.

### 3637. — Spanish, 1914 [First edition].

Colección Estvdio | Atlas | De Mineralogía | Primera Parte | Text Adaptado Al Castellano | Por Al | Dr. F. Pardillo | CatdrBtico de la Universidad de Barcelona | 10 Lbminas En Colores Con 104 Figuras | Tercera Edición | — Barcelona 1914 — | C. Seither — Editor | 72 Rambla De Cataluña 72.

[Part 1] 8°: [2], [1]-28 p., 10 chromolithographic plates numbered 1-10 on a single accordion foldout leaf. [Part 2] 8°:[1]-34 p., 10 chromolithographic plates numbered 11-20 on a single accordion foldout leaf. PAGE SIZE: 192 x 124 mm.

**CONTENTS:** [Part 1] [1 pg], Blank.; [1 pg], Advertisement for other books.; [1-2], Title page, verso "Es Propiedad."; [3]-27, Text.; 28, Table of elements.; [At end], 10 plates on a single folded leaf.

[Part 2] [1-2], Title page, verso "Es Propiedad."; [3]-32, Text.; 32-34, "Indice Alfabético."

**VERY SCARCE.** This is another of the many mineralogical books designed to illustrate the wide variety of colors and forms exhibited in the mineral kingdom. The first part first defines what a mineral is, which is followed by a long description of the 95 figures illustrated on the 10 colored plates. The second part describes the instruments used in mineralogy, followed by a long description of the 104 figures illustrated on the 10 color plates. The chromolithographic plates are of very good quality, and they appear to be original to this work.

The two parts of this work were reissued as title page editions.

**2nd edition, 1923:** *Atlas de mineralogía*. Barcelona, C. Seither, 1923. 2 parts.

**3rd edition, 1926:** *Atlas de mineralogía*. Barcelona, C. Seither, 1923. 2 parts.

**REFERENCES:** BL.

**PARSONS, Charles Lathrop.** (BORN: New Marlboro, Mass., U.S.A., 23 March 1867; DIED: Pocasset, Mass., U.S.A., 13 February 1954) *American chemist.*

Parsons was professor of chemistry at New Hampshire College, in Durham, New Hampshire. This is now the University of New Hampshire. The university's Parsons Hall chemistry building is named for this renowned chemist. Parsons was business manager of the American Chemical Society for more than 30 years. Today, the Charles Lathrop Parsons Award is awarded to recognize public service by a member of the American Chemical Society.

**REFERENCES:** ABA: I 1236, 450-454; II 462, 140-142. • *American Men of Science*, 1st edition (1906). • *Herringshaw's National Library of American Biography*. • Poggendorff: 5, 943, 6, 1953 & 7b, 3870. • WBI. • *Who Was Who in America*: 3, ??.

Elements of mineralogy, crystallography and blowpipe analysis, ... (New York, 1900, and other editions).

*See:* Moses, Alfred Joseph.

**PARTSCH, Paul Maria.** (BORN: Vienna, Austria, 11 June 1791; DIED: Vienna, Austria, 3 October 1856) *Austrian mineralogist.*

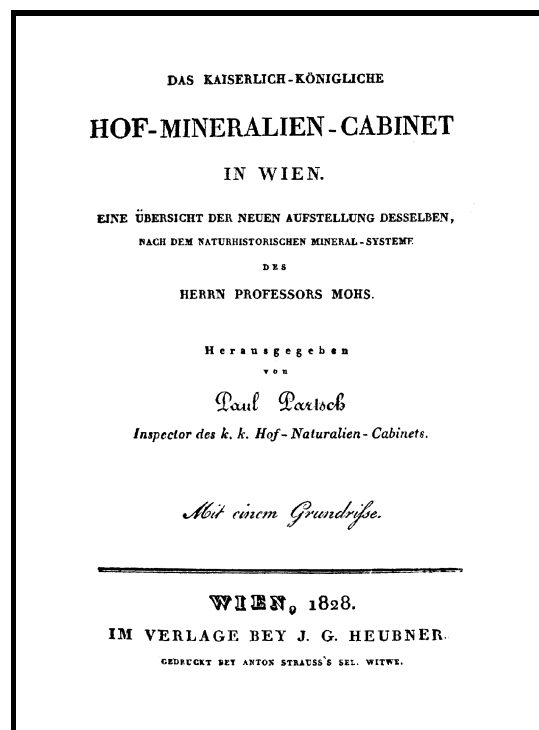
Partsch became a man of independent means in 1824, which allowed him to devote his time to his own amusements. He made many independent geological excursions, and he was in 1835 appointed custodian of the petrifications of the k.k. Hof-Mineralien Cabinet in



PARTSCH

Vienna. Partsch was a founding member of the Austrian Academy of Science. He helped finance the publication of many mineralogical works.

REFERENCES: ADB. • DBA: I 932, 375-392; II 983, 212-216. • *Österreich Biographisches Lexikon*. • Poggendorff: 2, col. 369. • WBI. • Wurzbach, *Biographisches Lexikon Österreich*, 1856-91.



HOF-MINERALIEN-CABINET, 1828

**3638. — German, 1828** [Collection catalog].

Das Kaiserlich-Königliche | Hof-Mineralien-Cabinet | In Wien. | Eine Übersicht Der

Neuen Aufstellung Desselben, | Nach Dem Naturhistorischen Mineral-Systeme | Des | Herrn Professors Mohs. | Herausgegeben | von | Paul Partsch | Inspector des k.k. Hof-Naturalien-Cabinets. | Mit einem Grundrisse. | [double rule] | Wien, 1828. | Im Verlage Bey J.G. Heubner. | Gedruckt Bey Anton Strauss's Sel. Witwe.

8°:  $\pi^4$  1-11<sup>8</sup> 12<sup>4</sup> 13<sup>2</sup>; 78 $\ell$ .; [2], [i]-vi, [1]-148 p., one folding plate ("Grundriss | des k.k. | Hof- Mineralien-Kabinettes."); 530 x 220 mm.) PAGE SIZE: 170 x 105 mm.

CONTENTS: [2 pgs], Half title page, "Das Kaiserlich-Königliche | Hof- Mineralien-Cabinet | In Wien," verso blank.; [i-ii], Title page, verso "Das Princip der Classification in der Naturgeschichte | ..."; [iii]-iv, "Vorwort"—dated April 1828.; v-vi, "Inhalt."; [1]-85, Text.; 86-91, "Anmerkungen."; 92-147, "Register." [=alphabetical by mineral species].; 148, Corrections and errata.; [At end], One folding plate.

VERY SCARCE. Catalog of the Hof-Mineral collection located in Vienna. The collection was founded by Emperor Franz Stephan I [1708-1765], who was an ardent supporter of the natural sciences, and a connoisseur of beautiful minerals and gems. In 1748 he purchased the large natural history collection of JOHANN VON BAILLOU. This collection was the largest of its kind, consisting of approximately 30,000 objects, including an extensive mineralogical suite. The mineralogist IGNAZ EDLER VON BORN was retained to arrange the collection. However, after the Emperor's death, his widow, the Empress Maria Theresa [1717-1780], presented the collections to the Austrian state. This gift formed the nucleus of the Hof-Cabinet, which was reorganized in 1889 into the present day, Naturalhistorisches Museum.

The present work is a catalog of the mineralogical portion of the collection, arranged according to MOHS classification system. It contains descriptions of all mineral species represented in the collection to the end of 1827. Under each species, the localities represented by the specimens is provided. The folding plate at the end provides a schematic plan of the collection room.

REFERENCES: Burchard, *Mineral Museums*, 1986: p. 193-6. • Petersen, *World Directory of Mineral Collections*, 1994: p. 36.

**3639. — German, 1843** [Collection catalog?].

Die Mineralien-Sammlung im Kaiserl. Königl. Hof-Mineralien-Kabinette zu Wien. Ein tabellarisches Schema der neuesten Aufstellung derselben; mit einem Index zur Erleichterung der Auffindung der Arten von Paul Partsch. Wien, 1843.

12°: 80 p.

RARE. An overview of the mineral collection of the royal collections in Vienna, containing an index to the location of the various species. It was prepared by the curator, Paul Partsch.

REFERENCES: BL: [1255.d.8.]. • Partsch, *Katalog der Bibliothek*, 1851: no. 479.

## PASUMOT

### 3640. — German, 1843 [First edition].

Kurze Uebersicht der im k.k. Hof-Mineralien-Kabinette zu Wien zur Schau gestellten acht Sammlungen, nach der letzten im Jahre 1842 vollendeten neuen Aufstellung herausgegeben von Paul Partsch ... Wien, Kaulfuss Wt. Prandel, 1843.

8°: 77 p., one folding diagram.

RARE. This is an overview of the eight collections of the mineral cabinet of the royal collection in Vienna. It was a new classification begun in 1842 under Partsch's curatorship. It is illustrated by a folding diagram of the museum.

REFERENCES: BL: [no copy listed].

**3641. 2nd edition, 1855:** Uebersicht der im k.k. Hof-Mineralien-Kabinete zu Wien zur Schau gestellten acht Sammlungen nach der letzten, im Jahre 1842 vollendeten neuen Aufstellung. Mit einem Grundriss. Herausgegeben von Paul Partsch. 2., gänzlich umgearbeitet und stark vermehrte Auflage. Wien, Prandel & Meyer, 1855.

8°: 144 p., one folding diagram. RARE.

REFERENCES: BL: [no copy listed].

### 3642. — German, 1851.

Katalog | Der | Bibliothek Des K.K. Hof-Mineralien-Cabinets | In Wien. | Zusammenge- stellt | von | Paul Partsch, | Custos An Dem Genannten Cabinet. | [ornament] | Herausgegeben | Von Der Kais. Kön. Geologischen Reichsanstalt. | [ornate rule] | Wien 1851. | Aus Der K.K. Hof- Und Staatsdruckerei. | [rule] | Bei Wilhelm Braumüller, Buchhändler Des K.K. Hofes Und Der Kaiserlichen Akademie | Der Wissenschaften.

8°: [A]<sup>4</sup> B<sup>2</sup> 1-294  $\chi^1$ : 123 $\ell$ .; [i]-xii, 1-232, [2] p.

CONTENTS: [i-ii], Title page, verso blank.; iii-vi, "Vorwort," signed P. Partsch and W. Haidinger.; vii-xii, "Uebersicht des nach Wissenschaften geordneten oder Material-Kataloges.;" 1-28, "I. Mineralogie.;" 29-53, "II. Geognosie.;" 54-101, "III. Mineralische und Geognostische Topographie, auch Naturhistorische Reisen.;" 102-131, "IV. Petrefactenkunde, vorweltliche Fauna und Flora.;" 132-137, "V. Bergbau- und Huetttenkunde, mit dem Anhang: Bergbohrer und Artesische Brunnen.;" 138-142, "VI. Chemie.;" 143-148, "VII. Physik.;" 149-164, "VIII. Geographie und Statistik, auch Geographische Karten.;" 165-172, "IX. Vermischte Schriften.;" 173-179, "X. Zeit- und Gesellschafts-Schriften.;" 180-182, "Anhang. Zeit- u. Gesellschafts-schriften in der Bibliothek des k.k. zoologischen Cabinetes, die auch Aufsätze aus den im k.k. Mineralien-Cabinete vertretenen Fächern enthalten.;" 183, "Nachtrag. Schriften, die während des Druckes nicht mehr konnten aufgenommen werden.;" [184], Blank.; 185-232, "Alphabetischer Index.;" [1 pg], "Zusätze und Verbesserungen.;" [1 pg], Blank.

VERY SCARCE. Excellent catalog of the extensive mineralogical library of the Hof-Mineral collection in Vienna. For other editions, see entries under Vienna, Austria. K.K. Hof-Mineralien-Kabinet.

REFERENCES: BL: • Margerie, *Bibliographies Géologiques*, 1896: no. 810. • NUC: 636, 552. • Petzholdt, *Bibliotheca Bibliographica*, 1866: p. 567.

**PASSERI, Giovanni Battista, Antiquary.** (BORN: Farnese, Italy, 1694; DIED: Pesaro, Italy, 1780) *Italian theologist & historian.*

Passeri, Protonotary Apostolic of Pesaro, antiquary of the Grand Duke of Florence, Cosimo III, and the foremost Etruscan scholar of his time. He collected many antiquities and authored several descriptive texts of his Roman statues.

REFERENCES: ABI: I 750, 245-302; II 448, 64-67. • De Tipaldo, *Biografia degli Italiani*, 1834-45. • Eckstein, *Nomenclator philologorum*, 1871. • Eitner, *Quellenlexikon*, 1959. • Gerber, *Historisch-biographisches Lexikon*, 1812-4. • Jöcher, *Gelehrten-Lexikon, Supplement*. • Parenti, *Aggiunte al Dizionario*, 1952-60. • WBI.

### 3643. — Latin, 1753-9 [First edition].

Dell'Istoria de' fossili del pesarese e di altri luoghi vicini ... Dissertazioni IV, Nella quale si tratta la Litogonia, e Generazione de Marmi, e la ragione delle loro macchie. di Mons. Giambattista Passeri ... Pesaro, 1753-59.

8°:

RARE. A series of four dissertations concerning the fossils and minerals found in the vicinity of Pesaro in central Italy. They were published in 1753, 1754, 1755, and 1759.

REFERENCES: LKG: XIV 538.

**3644. 2nd edition, 1775:** Della esoria de fossili dell agro Pesarese, e d'altri luoghi vicini, liscorsi sei. Bologna, 1775.

8°: RARE.

REFERENCES: BL: [458.a.18].

### 3645. — Latin, 1753 [Dissertation].

Dissertatio de petrificatis agri Veronensis. Venetiis, 1753.

8°: VERY SCARCE.

REFERENCES: LKG: XIV 638.

**PASUMOT, François.** (BORN: 1733; DIED: 1804) *French geographer.*

REFERENCES: ABF: I 812, 226-236; II 504, 155. • *Biographie Universelle*. • Feller, *Biographie Universelle*, 1851. • Le Moine, Nicolas Toussaint., *Les siecles litteraires de la France*. Paris, 1800-3. 4 vols. [Reprinted, Genève, Slatkine, 1971.]. • *Nouvelle Biographie Générale* (Hoefer). • Poggendorff: 2, cols. 373-4. • WBI.

### 3646. — French, 1797.

Voyages physiques dans les Pyrenees en 1788 et 1789. Histoire naturelle d'une partie de ces montagnes; particulièrement des environs de Barege, Bagneres, Cauteres et Gavarnie. Avec des cartes geographiques par Francois Pasumot ... Paris, Le Clere, 1797. An V.

8°: xxiv, 420 p., illus., 3 folding maps.

VERY SCARCE. A physical voyage taken in the Pyrenees Mountains in 1788 and 1789. Included are an account of the natural history of the range, together with geographical maps.

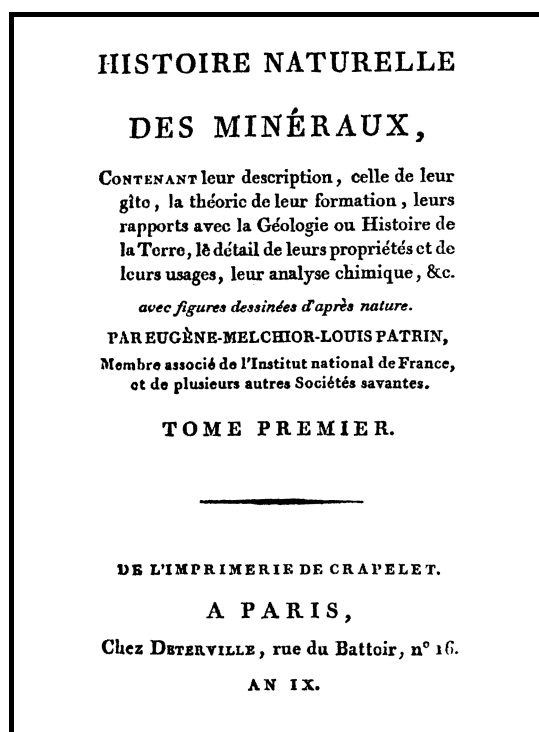
REFERENCES: LKG: XIV 396.

**PATRIN, Eugène Melchior Louis.** (BORN: Lyon, France, 3 April 1742; DIED: St. Vallier, France, 15 August 1815) *French chemist, mineralogist & geologist.*

Patrin studied chemistry and physics in France, after which he took a decade long mineralogical survey throughout Germany, Hungary, Poland, Russia and

Siberia. His extensive travels in the Urals, Altai and other regions of Siberia lasted from 1780 to 1787. The mineral specimens he collected were sent back to St. Petersburg ahead of his return, but were partially confiscated by PYOTR SIMON PALLAS, who took the choicest pieces for his own cabinet. The other Siberian specimens were offered for sale to the Jardin du Roi Collection in Paris, on the stipulation that the group not be broken up.

REFERENCES: ABF: I 813, 100-110. • Beauchamp, *Biographie Moderne*, 1816. • Berthier, P., *Notice sur E.M.L. Patrin*. Lyon, 1874. • *Biographie Universelle*: 33, 140-2. • DBF. • Feller, *Biographie Universelle*, 1851. • *Nouvelle Biographie Générale* (Hoefler). • Poggenorff: 2, cols. 374-5. • WBI.



HISTOIRE NATURELLE DES MINÉRAUX, 1801

**3647. — French, 1801** [First edition].

Histoire Naturelle | Des Minéraux, | Contenant leur description, celle de leur | gîte, la théorie de leur formation, leurs | rapports avec la Géologie ou Histoire de | la Terre, le détail de leurs propriétés et de | leurs usages, leur analyse chimique, &c. | avec figures dessinées d'après nature. | Par Eugène-Melchior-Louis Patrin, | Membre associé de l'Institut national de France, | et de plusieurs autres Sociétés savantes. | Tome Premier. [-V.] | [tapered rule] | De L'Imprimerie De Crapelet. | A Paris, | Chez Deterville, rue du Battoir, n° 16. | An IX.

[SERIES TITLE PAGE:]

Histoire Naturelle | De Buffon, | A laquelle

on a joint les Observations et les | Découvertes des plus célèbres Naturalistes | Modernes sur la Minéralogie.

5 vols. [VOL 1] 12°:  $\pi^2$  a-f<sup>6</sup> g<sup>2</sup> h<sup>2</sup> 1-21<sup>6</sup>; 168 $\ell$ .; [4], [i]-lxxx, [1]-251, [1] p., 3 plates.; [VOL 2] 12°:  $\pi^2$  1-27<sup>6</sup> 28<sup>2</sup>; 166 $\ell$ .; [4], [1]-327, [1] p., 7 plates.; [VOL 3] 12°:  $\pi^2$  1-29<sup>6</sup> 30<sup>3</sup>; 179 $\ell$ .; [4], [1]-353, [1] p., 17 plates.; [VOL 4] 12°:  $\pi^2$  1-28<sup>6</sup> 29<sup>3</sup>; 173 $\ell$ .; [4], [1]-342 p., 3 plates.; [VOL 5] 12°:  $\pi^2$  1-33<sup>6</sup>; 200 $\ell$ .; [4], [1]-399, [1] p., 10 plates. PAGE SIZE: 132 x 84 mm.

CONTENTS: [Vol 1] [2 pgs], Series title page, verso blank.; [2 pgs], Title page, verso blank.; [i]-xxvij, "Introduction."—dated 4 January 1801.; [xxviii], "Avertissement | De L'Éditeur."; [xxix]-lx, "Vocabulaire | Abrégé | De Mineralogie Et De Chemie."; [lxi]-lxxx, "Table." [table of contents for all volumes].; [lxxvi], Blank.; [lxxvii]-lxxx, "Addition | Aux Terres."; [1]-251, Text.; [1 pg], Blank.

[Vol 2] [2 pgs], Series title page, verso blank.; [2 pgs], Title page, verso blank.; [1]-327, Text.; [1 pg], Blank.

[Vol 3] [2 pgs], Series title page, verso blank.; [2 pgs], Title page, verso blank.; [1]-353, Text.; [1 pg], Blank.

[Vol 4] [2 pgs], Series title page, verso blank.; [2 pgs], Title page, verso blank.; [1]-342, Text.

[Vol 5] [2 pgs], Series title page, verso blank.; [2 pgs], Title page, verso blank.; [1]-399, Text.; [1 pg], Blank.

PLATES: Scattered throughout the five volumes are 40 unnumbered engraved plates. Presumably, all of the plates are designed by Deseve, with most signed by one of three engravers. At the time of publication, the work could be purchased with the plates either plain or hand colored. The subject of the plates are items of mineralogical interest. At the top of each plate is an indication as to the Tome and page where the illustration should be located. Every plate also has included a description of the objects pictured. Listed below are the description of the plates and their placement within each volume.

Volume 1: (p. 96) "Granit de Corse," signed Deseve del. Le Villain Sc.; (p. 101) "Granit Graphique de Siberie," signed Deseve del. Le Villain Sc.; (p. 208) "Asbeste Raionnant," signed Deseve del. Le Villain Sc.

Volume 2: (p. 10) "1. Topaze Blanche de Siberie. 2. Topaze Bleue verdâtre," signed Deseve del., Caquet sc.; (p. 28) "Émeraude de Siberie."; (p. 32) "1. Aiguemarine ou Émeraude. 2. Cristal de Roche," signed Le Villain sc.; (p. 121) "Agathes-Onyx Sphéroïdales. P. 188," signed Caquet sc.; (p. 162) "1. Geode De Calcedoine. 2. Calcedoine Ceillée. P. 168," signed Le Villain sc.; (p. 166) "1. Calcedoine En Prismes. 2. Coupe De La Même Pierre," signed Le Villain sc.; (p. 265) "Jaspe Ceillé de Sibérie," signed Le Villain sc.

Volume 3: (p. 3) "Albâtre Onyx Du Cabinet de Besson," signed Le Villain sc.; (p. 128) "Flos-Ferri," signed Jourdan Sculp.; (p. 144) "Stalagmites En Champignons," signed Le Villain Sculp.; (p. 154) "Spath Calcaire En Prismes Hexaédres," signed Le Villain Sculp.; (p. 156) "1. Spath Calcaire Des Landes. 2. Spath Calcaire D'Arragon. 3. Hyacinthes De Composcelle. 4. Sélénite (Do Cabinet de Lelievre)," signed Pierron Sculp.; (p. 163) "1. Spath Calcaire de Daourie. 2. Spath Calcaire lenticulaire," signed Jourdan Sculp.; (p. 168) "Ludus Helmont D'Aberladi, en Ecoffe," signed Pierron Sculp.; (p. 212) "Gypse Lenticulaire," signed Le Villain Sculp.; (p. 214) "1. Coupe De La Sélénite En Fer De Flèche. 2. La Même vue sur le Plat," signed Jourdan Sculp.; (p. 217) "Gypse Fibreux Du Cabinet de Besson," signed Jourdan Sculp.; (p. 218) "Sélénite En Végétations Du Cabinet de Besson," signed Le Villain Sculp.; (p. 220) "Albâtre Gypseux Veine," signed Jourdan Sculp.; (p. 222) "Stalactite Gypseuse Des Salines," signed Le Villain Sculp.; (p. 227) "Spath-Fluor En Zones diversement colorées. P. 237."; (p. 280) "Pierre De Florence," signed Le Villain Sculp.; (p. 334)

# PATTON

"Grès De Fontainebleau," signed Jourdan Sculp.; (p. 350)  
"Poudingue D'Angleterre," signed Le Villain Sculp.

Volume 4: (p. 180) "Bismuth De Schneéberg Du Cab.  
de Besson Insp. des Min.," signed Jourdan Sculp.; (p. 202)  
"Oxide De Zinc en Grains," signed Pierron Sculp.; (p. 203)  
"Oxide De Zinc en Grains," signed Le Villain Sc.

Volume 5: (p. 53) "Hematite Botryte," signed  
Pierron Sculp.; (p. 104) "Cuivre Natif De Sibérie,"  
signed Le Villain Sculp.; (p. 115) "Cuivre Pyriteux En  
Dendrites De Gross-Camsdorf En Thuringe. (Du Cabinet  
De Besson)," signed Le Villain.; (p. 128) "Argent En  
Dendrites, du Pérou," signed Pierron Sculp.; (p. 129)  
"Argent Natif En Dendrites, dans De L'Agate. (Du Cabinet  
de Lelievre)," signed Jourdan Sculp.; (p. 310) "Zeolithe  
De Perce. 1. Le Rogonon vu par dehors. 2. Coupe  
transversale.," (p. 326) [No title, fossil ferns], signed Le  
Villain Sculp.; (p. 385) "Bois Agatisé (Du Cabinet De  
Besson)," signed Pierron Sculp.; (p. 386A) "Bois Agatisé  
Contentant Des Vers. (Du Cabinet de Besson)," signed Le  
Villain Sc.; (p. 386B) "Fougère En Arbre, Agatisée. (Du  
Cabinet de Besson)," signed Pierron Sculp.

VERY SCARCE. The five volumes described  
represent Tomes XXVII-XXXI or the complete  
mineralogy section of *Cours Complet d'Histoire  
Naturelle de Buffon*, which was published in 80 volumes.  
Although the series title page indicates that Patrin's  
work ostensibly follows BUFFON theories, it really does  
not. Patrin's effort is a separate work, and the product  
of his own independent research.

The long introduction of the first volume gives  
an overview of the works purpose, a description of  
the classification method, comments on the origin of  
minerals and mineralized deposits and references to  
the literature. A glossary of mineralogical terms as  
well as a table of contents to all five volumes is also  
included. Patrin explains that the many observations  
of Russian and Siberian sources are from his first hand  
knowledge and extensive travels in Russia, and the  
Ural Mountains. Patrin was exceptionally well traveled  
and many of his observations on minerals of Europe  
and Scandinavia were based on his personal experience.  
The text of work describes individual species in rather  
long essay format, which is its only resemblance to  
the work of Buffon. A wide variety of minerals are  
described including, quartz, zircon, Bohemian topaz,  
amethyst, Russian adventurine, jade, Russian beryls  
and topazes, gold, silver, copper, volcanic products,  
amber, sulfur, bitumens, and fossils. Throughout,  
the somewhat crude plates complement the text with  
illustrations of minerals described therein. Apparently,  
copies of the book with these plates either plain or hand-  
colored could be purchased at the time of publication.  
In addition, a few copies of the work have been  
encountered with the plates present in both states.

REFERENCES: BMC: 1, 281 & 4, 1529. • *Freilich Sale  
Catalog*: no. 426. • LKG: XII 102b. • NUC. • *Sinkankas,  
Gemology Bibliography*, 1993: no. 1037.

**3648. 2nd edition, 1803:** *Elemens de Minéralogie et de  
Géologie, ou Histoire Naturelle des Minéraux, considérée  
dans leurs rapports avec la théorie de la Terre, et contenant  
leur description particulière, celle de leurs gites, l'histoire  
de leur formation, les détails de leurs propriétés et de leurs  
usages, leur analyse chimique, etc.* Paris, 1803.

5 vols. VERY SCARCE.

**Facsimile reprint, 2001:** Elibron Classics, 2001.

REFERENCES: BMC: 1, 281. • NUC. • *Sinkankas,*

*Gemology Bibliography*, 1993: no. 1038 [not seen].

**3649. Italian transl., 1836:** *Storia Naturale | Dei | Minerali |  
Contente La Lor Descrizione, | Quella Del Lor Giacimento,  
La Teoria Della Lor | Formazione, Le Relazione Che  
Hanno Colla Geologia | O Storia Della Terra, L'Esposizione  
Delle Loro | Proprieta, Dei Loro Usi, La Loro Analisi  
Chimica, | Con Figure Disegnate Dal Naturale | Di |  
Eugenio Melchiorre Luigi Patrin | [...3 lines of titles and  
memberships...] | Traduzione Dal Francese | [ornate rule]  
| Tomo I [-V]. | Livorno Tipografia Vignozzi. | 1836.*

5 vols., consisting of numbers 76 to 80 of the series.  
[Vol 1] 12°: [2], [1]-200 p., 4 plates (numbered Tav.  
85-88; 3 hand-colored.); [Vol 2] 12°: [2], 169-344 p., 4  
plates (numbered Tav. 89-92; 3 hand-colored.); [Vol 3] 12°:  
[2], 345-484 p., 4 plates (numbered Tav. 93-96; 4 hand-  
colored.); [Vol 4] 12°: [2], 485-626 p., 4 plates (numbered  
Tav. 97-100; 4 hand-colored.); [Vol 5] 12°: [2], 627-769,  
[1] p., 4 plates (numbered Tav. 101-104; 4 hand-colored).  
PAGE SIZE: 160 x 100 mm.

CONTENTS: [Vol 1] [2 pgs], Half title page,  
"Continuazione | della | Storia Naturale | Di Buffon.  
| Tomo LXXVI. Fasc. 1.," verso blank.; [1-2], Title page,  
verso blank.; [3]-14, "Introduzione.," [15]-30, "Vocabolario  
| Compendiato | Di Mineralogia E Di Chémica.," [31]-200,  
Text.

[Vol 2] [2 pgs], Half title page, "Continuazione | della  
| Storia Naturale | Di Buffon. | Tomo LXXVII. Fasc. 2.,"  
verso blank.; [No title page]; 169-344, Text.

[Vol 3] [2 pgs], Half title page, "Continuazione | della  
| Storia Naturale | Di Buffon. | Tomo LXXVIII. Fasc. 3.,"  
verso blank.; [No title page]; 345-484, Text.

[Vol 4] [2 pgs], Half title page, "Continuazione | della  
| Storia Naturale | Di Buffon. | Tomo LXXIX. Fasc. ." [No  
Fasc. number], verso blank.; [No title page]; 485-626,  
Text.

[Vol 5] [2 pgs], Half title page, "Continuazione | della  
| Storia Naturale | Di Buffon. | Tomo LXXX. Fasc. 5.,"  
verso blank.; [No title page]; 627-769, Text.; [1 pg], Blank.

VERY SCARCE. Translation of *Histoire Naturelle des  
Minéraux* (1st ed., Paris, 1801). The 5 volumes described  
form volumes 76 to 80 of a much larger series of 102?  
volumes that represented a complete translation of the 80  
volume *Cours Complet d'Histoire Naturelle de Buffon*. A rare  
set.

REFERENCES: NUC.

**PATTON, Horace Bushnell.** (BORN: 1858; DIED:  
1929) *American geologist.*

REFERENCES: ABA: I 1243, 24-25; II 464, 297.  
• *American Men of Science*, 1st edition (1906). •  
• *Herringshaw's National Library of American Biography*. •  
WBI. • *Who Was Who in America*.

**3650. — English, 1896** [First edition].

Lecture Notes | On | Crystallography | By |  
Horace Bushnell Patton, Ph.D. | [...2 lines of titles  
and memberships...] | Compliments Of | Colorado  
State School Of Mines, | Golden, Colorado |  
Published By The Author. | Golden Colorado.

8°: [1]-34 p.

CONTENTS: [1-2], Title page, verso "Copyright, 1896 |  
By | Horace B. Patton.," [3], "Preface.," [4], Blank.; [5]-34,  
Text.

RARE. Undated but published in 1896 based on  
the copyright information. Patton was an instructor  
at the Colorado School of Mines, and this short essay  
accompanied his lecture on crystallography.

REFERENCES: NUC.

**3651. 2nd edition, 1905:** Lecture notes on crystallography. Revised edition largely rewritten. New York, D. Van Nostrand Co., 1905.

8°: 47 p., charts. VERY SCARCE.

**3652. 3rd edition, 1911:** Lecture notes on crystallography. Third edition, revised and partly rewritten. New York, D. Van Nostrand Co., 1911.

8°: 54ℓ. VERY SCARCE.

**PÁZ'MÁNDI, Gábor.** *Hungarian.*

**3653. — Latin, 1770.**

Idea Natri Hungariae Vetrerum Nitro Analogi per Gabrielem Páz'mándi ... Vindobonae, Apud Rudolphum Graeffer, 1770.

8°: 76 p. A study on the saltpetre deposits in Hungary. This was an important component in the manufacture of gunpowder, and of great importance. VERY SCARCE.

REFERENCES: LKG: XVI 286.

**PEČÍRKA, Joseph.** *Czech author.*

**3654. — German, 1853** [Second edition].

Grundlinien der reinen Krystallographie. Eine Anleitung zum Studium der mineralischen Krystallformen von Jos. Pečírka. Zweite Auflage mit 84 abbildungen. Prag, Karl André, 1853.

8°: [4], 67, [1] p., 84 text illus.

RARE. Crystallography.

REFERENCES: BL: [no copy listed].

**3655. — Czech, 1853** [First edition].

Nerostopis | Pro | Nižší gymnasia a realní školy. | [rule] | Sepsal | Dr. Jos. Pečírka. | Se šesti litogr. tabulkami. | [rule] | V Praze 1853. | Nákladem Kněhupectví J.G. Calve. | B. Tempký.

8°:  $\pi^6$  1-7<sup>8</sup> 8<sup>4</sup>; 68ℓ.; [12], [1]-124 p., 6 folding plates with diagrams of 30 cut out paper crystal models. PAGE SIZE: 218 x 130 mm. uncut.

CONTENTS: [2 pgs], Half title page, "Nerostopsi," verso blank.; [2 pgs], Title page, verso "Tiskem Kat. Jeřabkové."; [4 pgs], "Připomenutí | o lepení vzorků hlatipisních."; [2 pgs], "Obsah." [=table of contents]; [2 pgs], "Seznamování vzorků hlatních." [1]-109, Text.; 110-124, "Rejstřík." [=index]; [At end], 6 folding plates.

RARE. This is an introductory work for high school students to crystallography in the Czech language; however, the author utilizes both Czech and German terminology in his mineral names (the German printed in a distinctive swabach font). At the end are six lithographic plates showing 30 figures that were intended to be cut out, folded and glued to create paper crystal models—these are probably the first Czech paper ones!

REFERENCES: BL: [no copy listed].

**3656. German transl., 1853:** Krystallnetze | zu | Modellen der sämtlichen einfachen Krystallgestalten | nebst | einigen Combinationen. | [rule] | Herausgegeben | von | Dr. Joseph Pečírka. | Sechs lithogr. Tafeln. | [rule] | Prag, 1853. | Verlag der J.G. Calve'schen Buchhandlung. | F. Tempky.

8°: [8] p., 6 folding plates of cut-out and paste crystal models. PAGE SIZE: 220 x 125 mm.

CONTENTS: [2 pgs], Title page, verso blank.; [2 pgs], "Verzeichniss der gezeichneten Krystallmodellnetze."; [4 pgs], "Anweisung zur Verfertigung [|] der Krystallmodelle."; [At end], 6 folding plates at end.

RARE. Translation of *Nerostopis pro Nižší Gymnasia a Realní Školy* (Praze, 1853). The plates are the same as the original edition.

REFERENCES: BL: [no copy listed].

**PEITHNER, Johann Thaddäus Anton.** (BORN: Gottesgab, Bohemia, 8 April 1727; DIED: Prag, Czech., 22 June 1792) *Czech mining expert.*

Peithner was first the Registrar of the Bohemian mint and mining works in Prag. In 1762, he became professor of mining science at the Bergademie at Schemnitz, Hungary, followed by mining advisor to the nation, and in 1772, instructor of practical mining techniques. In 1775, he was appointed a privy councillor in Vienna, and in 1791, mining inspector in Prag.

REFERENCES: Meusel, *Verstorbenen Deutschen Schriftsteller*, 1802-16. • Poggendorff: 2, cols. 388-9. • Wurzbach, *Biographisches Lexikon Österreich*, 1856-91: 15, 82.

**3657. — German, 1769.**

Mineralogie ... Pragæ, 1769.

3 vols. VERY SCARCE.

REFERENCES: *Berlinische Sammlungen*: 9, 320. • *Wittenburg. Wochenblatt*: p. 397.

**3658. — German, 1771-2.**

Beschreibung der Böhmischen Flüsse mit Anmerkungen über der metallreichen Geschiebe, Edelgesteine und anderen Seltenheiten, welche an ihtern Unsern gefunden werden. Pragæ, 1771-2.

2 parts. [VOL 1: 1771] 8°: [VOL 2: 1772] 8°:

VERY SCARCE. Contains information of the mineralogy along various rivers in Bohemia.

REFERENCES: BL: [573.d.3.]. • LKG: XIV 68.

**3659. — German, 1780.**

[Contained within an elaborate engraved frame:] Johann Thaddäus Anton Peithners | [...3 lines of titles and memberships...] | Versuch | über die | natürliche und politische Geschichte | der | böhmischen und mährischen | Bergwerke. | [double rule] | Wien, | gedruckt bey Matthias Andreas Schmidt Universitäts Buchdruckern. | 1780.

2° in 4s: a-b<sup>4</sup> c<sup>2</sup> A-3Q<sup>4</sup> 3R<sup>1</sup>; 251ℓ.; [i]-xx, [1]-464, [18] p., one folding map (p. 214, "Erklärung der in dieser Mappa vorkommenden Zeichen."). Engraved title page and engraved vignettes throughout the text. PAGE SIZE: 344 x 216 mm.

CONTENTS: [i-ii], Half title page, verso blank.; [iii-iv], Title page, verso blank.; [v-x], Dedication to Maria Theresia, signed Taddäus Peithner.; [xi]-xx, "Vorbericht."; [1]-156, Text.; [157], Sectional title page, "Beschreibung | der | böhmischen Flüsse, nach ihrem Ursprung | und Lause bis zum Austritt in fremde Länder, | mit mineralogischen Anmerkungen."; [158], Blank.; [159], "Summarisches | Verzeichniß | der vornehmsten | Ströme, Flüsse, bekanntesten Bäche, | und anderen Gewässer, welche neben der Elbe | ..."; 160-169, Text.; [170], Blank.; [171]-212, Text on rivers and their uses.; [213], Sectional title page, "Versuch | über die | natürliche und politische Geschichte | der | Böhmischen und Mährischen Bergwerke. | [double rule] | II. Theil."; [214], Blank,



VERSUCH, 1780

afterwhich is bound a folding map: "Erklärung der in dieser Mappa vorkommenden Zeichen."; [215]-258, Text.; [259], Sectional title page, "Beilagen | zu dem | Versuch | über die | natürliche und politische Geschichte | der | Mährischen Bergwerke."; [260], Blank.; [261]-464, Text.; [16 pgs], "Register | der merkwürdigsten Sachen."; [2 pgs], "Erklärung der Münzabdrücke, welche bey den | Vignetten dieses Versuches vorkommen."

VERY SCARCE. A beautifully produced volume describing the rivers and mining works and regions of Bohemia. Included are incidental descriptions of some minerals and localities. It is a fundamental work describing every aspect of mining in the former Austrian mines in today's Czech Republic. Scattered throughout are elaborate engraved vignettes depicting mining scenery and the iconography of coins made in various mints adjoined to the mines.

Hoover 629; Koch 368; Kress S.4964; Humpert 3619; Poggendorff II, 388. - Erste Ausgabe. Sowohl für Mineralogie und Technik wie für die Wirtschaftsgeschichte bedeutender Klassiker. Die hübschen Vignetten tlw. mit Motiven aus dem Bergbau, auch Münzen u. Medaillen

REFERENCES: Ferchl: 399. • Hoover Collection: no. 629. • LKG: XIV 69.

**PELLETIER, Pierre Joseph.** (BORN: 1788; DIED: 1842) *French chemist.*

Student of Haüy's.

REFERENCES: ABF: I 817, 267-271; II 507, 411. • *Biographie Universelle*. • Dezobry, *Dictionnaire de Biographie*, 1889. • *Nouvelle Biographie Générale* (Hoefer). • WBI.

**3660. — French, 1812** [Dissertation].

Essai sur la Valeur des Caractères Physiques Employés en Minéralogie. Paris, D. Colas, 1812.

4°: 26, [2] p.

VERY RARE. This work was published as a thesis at the Université de Paris. Pelletier was a student of Haüy, and this thesis reviews the various physical properties of minerals, with notes on how to test for them and their relative value as a deterministic characteristic. Bejerinck notes that Pelletier's tenth section deals with the electrical properties of minerals.

REFERENCES: Bejerinck, F., "Ueber das Leitungsvermögen der Mineralien für Elektrizität," *Jahrbuch der Mineralogie*, Beilage Band, 11 (1898), 403-74. [Exhaustive paper on the electric conductivity of minerals, together with an interesting historical introduction to the subject.]: [p. 408]. • Wellcome Catalog (Books): ??.

**PENFIELD, Samuel Lewis.** (BORN: 1856; DIED: 1906) *American mineralogist.*

REFERENCES: ABA: I 1255, 76-82. • *Herringshaw's National Library of American Biography*. • WBI. • *Who Was Who in America*.

**3661. — English, 1901.**

Contributions | To | Mineralogy And | Petrography | From The Laboratories Of The | Sheffield Scientific School | Of | Yale University | Edited By | S.L. Penfield | Professor of Mineralogy | And | L.V. Pirsson | Professor of Physical Geology | New York: Charles Scribner's Sons | London: Edward Arnold | 1901.

8°: π<sup>6</sup> [1]-30<sup>8</sup> χ<sup>1</sup>; 247ℓ.; [i]-xii, [1]-482 p., biblio., index. PAGE SIZE: 224 x 146 mm.

CONTENTS: [i-ii], "Yale Bicentennial Publications | Contributions To Mineralogy | And Petrography," verso blank.; [iii-iv], "Yale Bicentennial Publications | ...," verso blank.; [v-vi], Title page, verso "Copyright, 1901, | By Yale University | ..."; [vii], "Preface"—dated May 1901.; [viii], Blank.; [ix]-xii, "Contents."; [1]-377, "Part I.—Mineralogy | Edited By | S.L. Penfield."; [378], Blank.; [379]-480, "Part II.—Petrography | Edited By | L.V. Pirsson."; [481]-482, "Index."

VERY SCARCE. Co-edited with L.V. PIRSSON, who worked on the petrographical section. This volume comprises a series of reprints of some of the most important of the papers containing the results of the researches made in chemical, mineralogical, and petrographical laboratories at Yale in the lines of mineralogy and petrography. In addition, there are historical accounts of the development of these sciences in Yale University. Appended bibliographies give complete lists of all the papers and books published by the researchers of the mineralogical and petrographical laboratories.

Manual of Determinative Mineralogy. With an Introduction on Blowpipe Analysis. By George J. Brush ... Revised and Enlarged, with Entirely New Tables for the Identification of Minerals. By Samuel L. Penfield ... Fifteenth Edition ... (New York, 1896 and other editions).

See: Brush, George Jarvis.

**PENNANT, Thomas.** (BORN: 1726; DIED: 1798) *Welsh? naturalist.*

REFERENCES: Allibone, *Dictionary of English Literature*, 1859-71. • BBA: I 865, 66-135; II 1703, 4-7. • *Dictionary of Welsh Biography*. • Waller, *Dictionary of Universal Biography*, 1857-63. • Watt, *Bibliotheca Britannica*, 1824. • WBI.

**3662. — English, 1774-6.**

A tour in Scotland, and Voyage to the Hebrides, MDCCLXXII. Chester [Eng.] Printed by J. Monk, 1774-76.

2 vols., plates, map, plans, ports.

VERY SCARCE. Scotland—Description and travel. Hebrides (Scotland)—Description and travel.

REFERENCES: BL: [982.e.6.]. • LKG: XIV 429.

**3663. 2nd edition, 1776:** A tour in Scotland and voyage to the Hebrides, 1772. Second edition. London, B. White, 1776.

2 vols., plates (part. fold.) ports., fold. maps. VERY SCARCE.

REFERENCES: BL: [1562/105.(1.)].

**3664. German transl., 1779-80:** Reise durch Schottland und die Hebridischen Inseln ... übersetzt von J.P. Ebeling. Leipzig, 1779-80.

2 vols.

VERY SCARCE. Translation by Johann Theodor Philipp Christian Ebeling [??-??] of *A tour in Scotland and voyage to the Hebrides*, 1772 (London, 1774-6).

REFERENCES: BL: [10370.c.5.]. • LKG: XIV 430b.

**3665. — English, 1793.**

The Literary Life of the Late Thomas Pennant, by Himself. London, 1793.

4<sup>o</sup>: 144 p., frontispiece portrait of Pennant, 2 plates.

SCARCE. A British naturalist and traveler; Pennant (1726-1798) began collecting minerals at the age of 20. Over his life he amassed a fine collection of over 1200 specimens, many from the Flintshire mines. He wrote a catalog of his collection and that resides in the British Museum of Natural History. The bulk of his original collection resides at the British Museum. Pennant wrote extensively on his travels and on zoology. These included "British Zoology" "Indian Zoology", "A Tour in Scotland", "A Tour in Wales", and others. His works included descriptions of the geology and mineral resources of the regions visited. He wrote the above work just before his death. The work contains his life's story, a brief look at his travels and written works followed by eight essays on various observations made over his life.

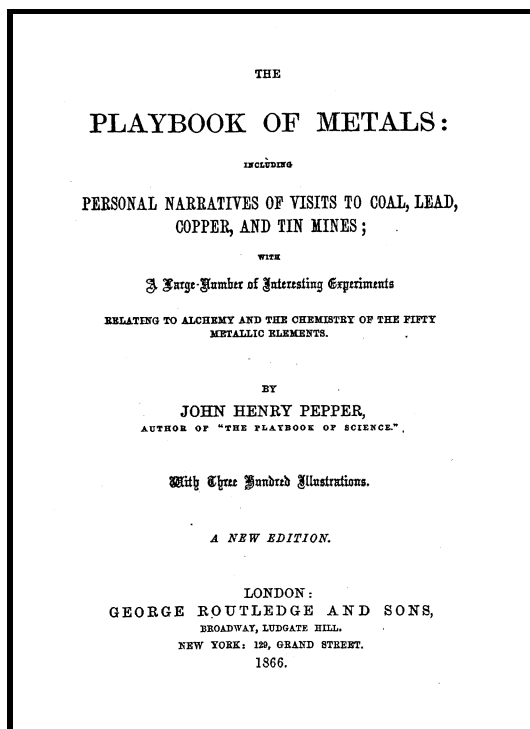
REFERENCES: BL: [B.304.(5.)].

**PEPPER, John Henry.** (BORN: 1821; DIED: 1900) *American chemist.*

REFERENCES: ABA: I 1257, 336. • *Herringshaw's National Library of American Biography.* • WBI.

**3666. — English, 1866.**

The | Playbook Of Metals: | Including | Personal Narratives Of Visits To Coal, Lead, | Copper, And Tin Mines; | With | A Large-Number of Interesting Experiments | Relating To Alchemy And The Chemistry Of The Fifty | Metallic Elements. | By | John Henry Pepper, | Author Of "The Playbook Of Science." | With Three Hundred Illustrations. | A New Edition. | London: | George Routledge And Sons, | Broadway, Ludgate Hill. | New York: 129, Grand Street. | 1866.



THE PLAYBOOK OF METALS, 1866

8<sup>o</sup>: 504 p.

SCARCE. After a short introduction describing the importance of natural materials to the English economy, Pepper provides information on various materials discovered within the earth. One chapter is devoted to coal, while 33 other chapters are devoted to a single metallic element. Included are gold, silver, lead, copper, tin, mercury, iron, aluminum, antimony, arsenic, etc. The work is heavily illustrated throughout with steel engravings typical of the nineteenth century. Depictions include equipment, procedures of mining and metallurgy and finished products.

REFERENCES: NUC.

**PÉREZ DE VARGAS, Bernardo.** (BORN: c1545; DIED: after 1569) *Spanish naturalist.*

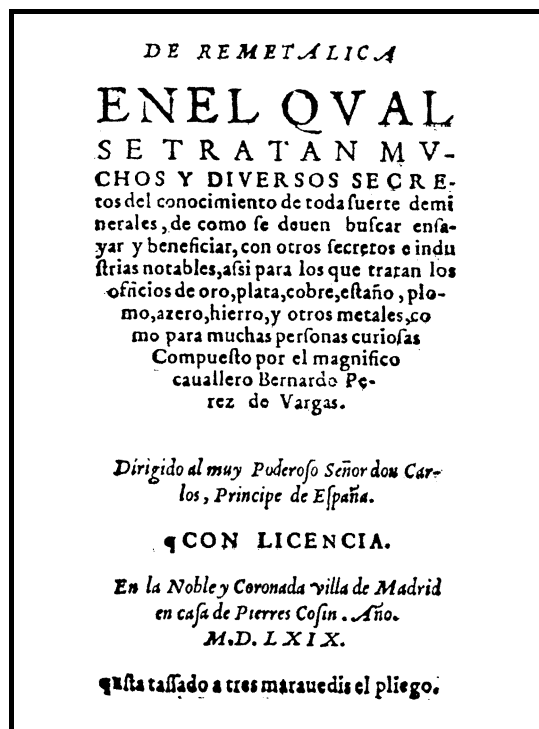
Apparently well educated, Pérez lived most of his life in Madrid. He claimed distinguished lineage and used the title "Magnifico," but there is no independent evidence of his statement.

REFERENCES: ABE. • DSB: 10, 514-5. • Maffei & Rua Figuera, *Bibliografía Mineral*, 1871-2: 2, 30-2. • Paoli, G.P., "El magnifico caballero Bernardo Perez de Vargas," *Revista de la Academia de ciencias de Madrid*, 31 (1934), 132-45. • Picatoste, *Biblioteca Científica Española*, 1891: 253-5. • WBI.

**3667. — Spanish, 1568** [First edition].

De Re Metalica | Enel Qval | Se Tratan Mv- | chos Y Diversos Secre- | tos del conocimiento de toda suerte de mi | nerals, de como se douen buscar ensa- | yar y beneficiar, con otros secretos e indu | strias





DE RE METALICA, 1568

notables, assi para los que tratan los | officios de oro, plata, cobre, estaño, plo- | mo, azero, hierro, y otros metales, co | mo para muchas personas curiosas | Compuesto por el magnifico | cauallero Bernardo Pe- | rez de Vargas. | Dirigido al muy Poderoso Señor don Car- | los, Principe de España. | ¶ Con Licencia. | En la Noble y Coronada villa de Madrid | en casa de Pierres Cosin. Año. | M.D.LXIX. | ¶ Esta tassado a treas maravedis el pliego.

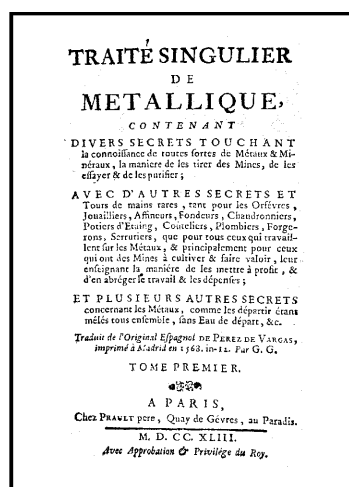
8°: π<sup>4</sup> ¶<sup>8</sup> 2¶<sup>8</sup> A-Z<sup>8</sup> 2A-2B<sup>8</sup> 2C<sup>7</sup>; 226ℓ. (Leaf ¶¶<sup>8</sup> is blank.; [40] p., Folios 1-206, [2] p., illus.; colophon is dated 1568, the Privilegio del Rey is dated Madrid 2 September 1569). The folios are numbered on the recto side only. PAGE SIZE: 142 x 84 mm.

CONTENTS: [1 pg], Title page.; [1 pg], "Yo Pedro de Marmol, secreta, ..."—signed Pedro de Marmol.; [4 pgs], "El Rey."; [2 pgs], Errata.; [2 pgs], "Donphi- | lippe por."; [10 pgs], "Prologo." [2 pgs], "Prologo Al Le- | ctor stvdioso."; [14 pgs], "Tabla De Los Li | bros Y Capitu- | los Desta Obra."; [1 pg], "Yo Diego."; [1 pg], Printer's device.; [2 pgs], Blanks.; Folios 1-206, Text.; [1 pg], Printer's device.; [1 pg], Blank.

VERY RARE. In February 1564, Perez de Vargas was granted a licence to prepare a work in the Spanish language describing mining and metallurgical technology, presumably to help guide the extraction of mineral wealth from the New World. Although the book he published in 1568 does deal in considerable detail with these subjects, it is a translation and largely a

plagerism of GEORG AGRICOLA's *De Re Metallica* (1st ed., Leipzig, 1556), with little or no originality from the supposed author. In fact, only a single reference to Agricola is made in the work, even though a chapter by chapter comparison between Agricola's work and this book clearly shows little difference. After the preliminaries, the work is divided into nine books. The first has 10 chapters giving a philosophical background to the form and nature of metals. The second in 5 chapters describes the causes of metals. The third in 9 chapters covers the nature of metals and in particular that of gold. The 15 chapters of the fourth book describe where to look for valuable deposits. The fifth book considers the benefits derived from metals and mines in 17 chapters. The sixth characterizes the preparation of ores for smelting, and how they should be ground, toasted and washed in 21 chapters. The seventh book in 15 chapters describes how to separate one metal from another. Peculiar secrets of metals are the object of the 10 chapters of the eighth book. The last book describes in 20 chapters how minerals are distributed in the land. Like the early editions of ALVARO ALONSO BARBA's *Arte de los Metales*, any book that had a connection to the mineral resources of the New World, was printed in a very limited edition so that the secrets might be better kept. Perez de Vargas's *De Re Metallica* is no exception to this rule; it is an exceptionally rare book. Brunet (1864) records only five auction records for this title between 1767 and 1791, and gives it the description: "Volume auquel sa grande rareté avait autrefois procuré un prix considérable."

REFERENCES: Agricola Bibliographie: 815-9 [reproduces the title page, plate 30]. • Brunet: 5, 1089 ["grande rareté"]. • *Freilich Sale Catalog*: no. 427. • LKG: III 23\*. • Maffei & Rua Figuera, *Bibliografía Mineral*, 1871-2: 2, 30-2. • NUC: 450, 329 [NP 0233393]. • Palau, *Manual*, 1948-77: no. 222669. • Partington, *History of Chemistry*, 1961-70: 2, 65-6. • Picatoste, *Biblioteca Científica Española*, 1891: no. 645.



TRAITÉ, 1743

**3668. French transl., 1743:** *Traité Singulier | De | Metallique, | Contenant | Divers Secrets Touchant | la connoissance de toutes sortes de Métaux & Mi- | néraux, la maniere de les tirer des Mines, de les | essayer & de les purifier; | Avec D' Autres Secrets Et | Tours de mains rares, tant pour les Orfèvres, Jouailliers, Affineurs, Fondeurs, Chaudronniers, Potiers d'Etain, Couëteliers, Plombiers, Forge- | rons, Serruriers, que pour tous ceux qui travail- | lent sur les Métaux, & principalement pour ceux | qui ont des Mines à cultiver & faire valoir, leur | enseignant la manière de les mettre à profit, & | d'en abrégier le travail & les dépenses; | Et Plusieurs Autres Secrets | concernant les Métaux, comme les départir étant | mêlés tous ensemble, sans Eau de départ, &c. | Traduit de l'Original Espagnol de Perez de Vargas, | imprimé à Madrid en 1568. in-12. Par G.G. | Tome Premier [-Second]. | [ornament] | A Paris, | Chez Prault pere, Quay de Gêvres, au Paradis. | [rule] | M.D.CC.XLIII. | Avec Approbation & Privilège du Roy.*

2 vols.

VERY SCARCE. Translation by Gaspar Gautier [?–?] of *De Re Metalica* (Madrid, 1568). From the original preliminaries, the translator has included only the “Prologo allector studioso.” In the first volume of this work are contained the translation of the first six books, while the second volume comprises the remaining three books. The illustrations are reproduced from the original edition.

REFERENCES: Agricola Bibliographie: 819-20 [reproduces the title page, plate 31]. • NUC: 450, 329 [NP 0233396].

**PETIVER, James.** (BORN: 1663; DIED: London, England, 20 April 1718) *English naturalist.*

The son of James and Mary Petiver of Hillmorton, Warwickshire. Educated at Rugby Free School he was later apprenticed to Mr. Feltham, Apothecary to St. Bartholomew's Hospital. Subsequently he became Apothecary to Charterhouse and seems to have had a good practice at the White Cross near Long Lane, Aldersgate Street, London, where he resided for the rest of his life.

A close friend of John Ray and recognised as a botanist, Petiver spent a good deal of time studying natural history. In October 1695 he was elected a Fellow of the Royal Society.

In spite of a busy practice Petiver managed to correspond with naturalists throughout the world and form large collections representing all groups of natural science. At the same time he made numerous expeditions into the country in order to add specimens to his museum.

After a period of ill-health Petiver died, unmarried, at his home in Aldersgate Street on 20th April 1718 and was buried at St. Botolph's Church in the same street. Although he never seemed to be comfortably off financially during his lifetime his collections, books and manuscripts were purchased by Sir Hans Sloane for £4,000, a very large sum in those days, and ultimately passed to the British Museum forming the basis of the collections there.

REFERENCES: Allibone, *Dictionary of English Literature*, 1859-71. • BBA: I 870, 110-122. • *Biographie Universelle*. • DNB. • Stearns, R.P., “James Petiver, promoter of natural science,” *Proceedings of the American Antiquarian Society*, Worcester, Mass., 1953. [BL, 8714.cc.33.]. • Waller, *Dictionary of Universal Biography*, 1857-63. • Watt, *Bibliotheca Britannica*, 1824. • WBI.

**3669. — Latin, 1695-1703** [First edition].

Musei Petiveriani | Centuria Prima, | Rariora Naturæ | Continens: | viz. | Animalia, Fossilia, Plantas, | Ex | Variis Mundi Plagis advecta, | Ordine digesta, | Et | Nominibus Propriis | Signata. | [rule] | A | Jacobo Petiver, | Pharmacop. Londinens. & Regiæ Societatis Socio. | [rule] |

Prima laus est humane sapientia, valde similia | posse distinguere. | Aristot. | [rule] | Londini: | Ex Officina S. Smith & B. Walford, Reg. Societatis Typograph. | ad insignia Principis in Cœmeterio D. Pauli. M DC XC V.

10 centuria. [Centuria 1: 1695] 8°: A<sup>8</sup>; 8*l*. [Centuria 2 & 3: 1698] 8°: B<sup>8</sup>; 8*l*. [Centuria 4 & 5: 1699] 8°: C<sup>8</sup>; 8*l*. [Centuria 6 & 7: 1699] 8°: D<sup>8</sup>; 8*l*. [Centuria 8: 1700] 8°: E<sup>8</sup>; 8*l*. [Centuria 9 & 10: 1703] 8°: F<sup>8</sup>; 8*l*.

CONTENTS: [Centuria 1] Ara title; A b preface; Aza-A8a (pp. 3-15) text with 'Advertisement' under rule on lower half of A8a, signed by Petiver at Aldersgate Street, London, and dated 30th November 1695; A8b references.

[Centuria 2 & 3] B1a-B6b (pp. 17-28) text; B7a-B8b 'Advertisement' signed by Petiver at Aldersgate Street, London, and dated 30th May 1698 with colophon London, Printed for S. Smith and B. Walford at the Princes Arms in S. Paul's Church Yard. 1698. under rule at bottom of B8b.

[Centuria 4 & 5] C1a-C8b (pp. 33-4 ) text; C6a-C8a (pp. 43-[47]) names of donors of collections received, signed by Petiver at Aldersgate Street, London, and dated 31st August 1699 with colophon London, Printed for Sam. Smith and B. Walford, at the Princes Arms in S. Pauls Church-yard. 1699. under rule at bottom of C8a; C8b catalogue of drugs.

[Centuria 6 & 7] D1a-D8b (pp. 49-64) text unsigned but with the address Aldersgate Street, London, and the year 1699 between rules followed by an erratum at bottom of D8b.

[Centuria 8] E1a-E8b (pp. 65-80) text signed by Petiver at Aldersgate Street, London, and dated 3<sup>rd</sup> December 1700, incorporating at the end the names of donors of collections received with colophon London, Printed for Mr. Smith and Mr. Bateman Booksellers. 1700. under rule at bottom of E8b.

[Centuria 9 & 10] F1a-F7a (pp. 81-93) text; F7b-F8b names of donors of collections received, signed by Petiver at Aldersgate Street, London, and dated 16th January 1703 with colophon London: Printed for Sam. Smith and Chr. Bateman, M DCC III. under rule at bottom of F8b.

VERY RARE. These 10 centuria together with the 10 decades of the *Gazophylacium*, the *Catalogue of Species* and *Directions for Preserving Collections* constitute the third volume of Petiveri *Opera* 1764, issued without a title page.

REFERENCES: BL: [957.c.32.(1.)]. • *Freilich Sale Catalog*: no. 428. • Lisney, *Bibliography of British Lepidoptera*, 1960: nos. 79-84.

**3670. 2nd edition, 1767:** *Musei Petiveriani Centuria Prima: Rariora Naturæ continens, viz. Animalia, Fossilia, Plantas, Fx variis Mundi Plagis advecta, Ordine digesta, & Nominibus propriis signata.*

2°; [B]<sup>2</sup> C-H<sup>2</sup> I<sup>1</sup>; 15*l*.

CONTENTS: [B] ia-D2a (pp. I-I I) text ending with a brief glossary; D b-lib (pp. 12-30) text under sub-heading *De Scarabmis Bombyliis Anglicanis: or, An Account of English Beetles and Bees.*

VERY SCARCE. The text is printed in double columns and pages 1 to 11 constitute a reproduction in folio of nos. 79 to 84 omitting the 'Advertisements', lists of donors and more extensive glossary. Under the inadequate subheading is included the additional 'Seventeen Curious Tracts' referred to on the title-page which goes on to state that this 'completes all he [Petiver] ever wrote on Natural History'. This claim is, however, not correct as no. 61 includes a list of titles published by the author nine of which are neither included nor reproduced in the collected editions.

# PETIVER

In order to render this bibliography of Petiver's works as comprehensive as possible, particularly as I can trace no surviving copies, these latter tracts are listed as follows: Labels for Specimens of English Wild Plants; Labels for Medicinal English and Foreign Plants; Botanicum Londinense, or London Herbal. Giving the Names Descriptions and Virtues, &c. of such Plants about London, as have been observed in the several Monthly Herborizings made for the Use of the young Apothecaries and others, Students in the Science of Botany or Knowledge of Plants; A Voyage to the Levant, viz. Sardinia, Sicily, Cyprus, Scanderoon, Rhodes, Stanchio or Coos, Samos, Scio and Smyrna. Giving an Account of each Place, their Inhabitants, Language, Coins, Weights and Measures, their Provisions and Prices, Animals, Vegetables, &c. to which are added some Plants lately discovered on the Islands of Chio and Samos; An Account of several Collectors of natural Rarities in Italy; De Animalibus Crustaceis Caudatis. Of divers Crustaceous Animals, as Lobsters, Crawfish, Prawns, Shrimps, &c. extracted from P. Bellonius and G. Rondeletius with Remarks on them; A Catalogue of the more Rare Plants, now and lately growing in the Physick Garden at Leyden; Plants observed on the famous Mountains and other Places about Geneva by the Celebrated Mr. Ray and other Botanists; The Virtues of several Sovereign Plants found wild in Maryland with Remarks on them.

REFERENCES: Lisney, *Bibliography of British Lepidoptera*, 1960: no. 94.

## 3671. — Latin, 1702-[1704] [First edition].

Gazophylacii | Naturæ & Artis | Decas Prima. | In quâ Animalia, Quadrupeda, Aves, | Pisces, Reptilia, Insecta, Vegetabilia; | Item Fossilia, Corpora Marina & Stir- | pes Minerales è Terra eruta, Lapides | figurâ insignes &c. | Descriptionibus brevibus & Iconibus | illustrantur. | Hisce Annexa erit Supellex Antiquaria, Numismata, Gemmæ excisæ, & sculpturæ, Opera | Figulina, Lucernæ, Urnae, Instrumenta varia, | Inscriptiones, Busta, reliquaque ad rem | priscam spectantia: Item Machinæ, Effigies | clarorum virorum, omniaque Arte producta. | Patronis suis & Moecenatibus | D.D.D. | Jacobus Petiver. | [rule] | Londini: | Ex Officina Christ. Bateman ad insignia Biblia & Corona, | vico vulgo diet. Pater-noster-Row. MDCCII.

10 decads. [Decade 1: 1702] A<sup>8</sup>; 8*l*. [Decade 2: n.d.] B<sup>8</sup>; 8*l*. [Decade 3: 1704] C<sup>8</sup>; 8*l*. [Decade 4: 1704] D<sup>8</sup>; 8*l*. [Decade 5: n.d.] E<sup>8</sup>; 8*l*. [Decade 6: n.d.]  $\pi^2$ ; 2*l*. [Decades 7 & 8: n.d.]  $\pi^2$ ; 2*l*.

CONTENTS: [Decad 1] A1a title; A1b preface; Aza-A8b (pp. 3-16) text.

[Decad 2] B1a-B8b (pp. 17-3 ) text.

[Decad 3] C1a-C8b (pp. 33-48) text with colophon London, Printed for Sam. Smith and C. Bateman, Booksellers. 1704. at bottom of C8b.

[Decad 4] D1a-D7b (pp. 49-62) text; D8a names of donors of collections received; D8b 'Advertisement' signed by Petiver at Aldersgate Street, London, and dated 15th March 1704 with colophon Sold by Mr Smith and Mr Bateman, Booksellers. at bottom of page.

[Decad 5] E1a-E8b (pp. 65-[80]) text.

[Decad 6] Two leaves (pp. 1-4) with colophon London, Printed for Mr. Christopher Bateman, Bookseller in Pater-noster-row, where Subscriptions are taken and the Figures

delivered. under rule at bottom of last page.

[Decad 7 & 8] Two leaves (5-8).

[Decad 9 & 10] Two leaves (pp. 9-12) with sub-heading on lower half of page 10 *Gazophylacii Naturæ & Artis Decas Decimal* and colophon London, Printed for Christopher Bateman in Pater-noster-row, where this and the First Volume are Sold. under rule at bottom of last page.

PLATES: The engraved plates are numbered I to C and 101 to 156 and the individual illustrations are also numbered for reference from the text. There is no order in the method of illustration, examples of the animal and vegetable kingdoms frequently occurring on the same plate. Plates I to L, LI to C and IOI to I55 were prepared and published at different times to illustrate decade I to V, VI to X and no. 53 respectively) plate I56 has no accompanying text.

The number of plate XXXVIII contains a correction made during the process of engraving while plate 155, incorrectly numbered II, was altered in manuscript at the time of issue.

Plates LXXXVII to LXXX, LXXXII to XCIV, XCVI to XCIX, 101 to 102, 104 to 105, 107, 116, 118, 127, 129, 138 and 151 to 153 are signed 'Sutton Nicholls sculp.'; plate LXXXI is signed 'S. N. sculp.'; plate 150.

VERY SCARCE. Earlier states of the first five decade in this edition, printed on one side of the paper only, were published for dissection and pasting on the backs of early impressions of the first fifty plates, no. 54. No. 93 is the second edition of the five decade printed in folio and published in the first volume of the second collected edition, 1767. The plates in this and no. 87 have been interchanged in the copy collated.

Decades 6-10 together constitute a continuation of nos. 85 to 89 with the text printed in double columns. The following sentence is included in a note at the end: 'Such Generous Patrons as will be pleased to give one Guinea in Hand, instead of 10s. to forward this Work, shall have a Table Dedicated to them'. No. 60 is a reproduction of page 4.

REFERENCES: BL: [968.b.13.(2.)]. • Lisney, *Bibliography of British Lepidoptera*, 1960: nos. 85-89 & 50-54.

3672. 2nd edition, 1767: *Gazophylacii Naturæ & Artis Decas Prima*. In qua Animalia, Quadrupeda, Aves, Pisces, Reptilia, Insecta, Vegetabilia; Item Fossilia, Corpora Marina and Stirpes Minerales è Terra eruta, Lapides figuea insignes, &c. Descriptionibus brevibus & Iconibus illustrantur. Hisce Annexa erit Supellex Antiquaria, Numismata, Gemma excise, & sculptura, Opera Figulina, Lucerna, Urnae, Instrumenta varia, Inscriptiones, Busta, reliquaque ad rem priscam spectantia: Item Machina, Effigies clarorum virorum, omniaque Arte producta. Patronis suds & Moecenatibus, D.D.D. [rule] Jacobus Petiver. [rule].

2°: [A]<sup>2</sup> B-C<sup>2</sup>; 6*l*.; [1]-12 p.

CONTENTS: [A]<sup>1a</sup>-C<sup>1b</sup> (pp. 1-12), Text with sub-heading A Classical and Topical Catalogue of all the Figures in the Five Decades, or First Volume of the *Gazophylacium*, With References to their Tables and Numbers near bottom of C1b.

VERY SCARCE. The text is printed in double columns to the lower part of C1b and thereafter, under the sub-heading, in three columns. This item is a composite reproduction in folio of nos. 85 to go, but omitting the dedications from nos. 85 to 89, the 'Advertisement' and Petiver's additions to his *Hortus Siccus* which were previously included in no. go. The reproduction of the Catalogue constitutes a third edition.

3673. 2nd collected edition, 1764: *Jacobi Petiveri Opera, Historiam Naturalem spectantia*: Containing Several

Thousand Figures of Birds, Beasts, Fish, Reptiles, Insects, Shells, Corals, and Fossils; also of Trees, Shrubs, Herbs, Fruits, Fungus's, Mosses, Sea-Weeds, &c. from all Parts, adapted to Ray's History of Plants, On above Three Hundred Copper-Plates, with English and Latin Names. The Shells have English, Latin, and Native Names. N.B. Above One Hundred of these Plates were never published before. To which are now added Seventeen Curious Tracts, Most of them so scarce as not to be purchased, Which completes all he ever wrote upon Natural History; viz. [in two columns, divided by vertical double lines, left hand column:—] *Gazophylacium Natura et Artis*. *Musei Rariora Natura*, &c. 238 Land and Water Beetles. 26 Humble-Bees. 19 [British] Fresh-Water Fishes. 42 British Land and Water Shells. 100 [British] Sea-Shells, Eggs, Stars, &c. [right hand column:—] 26 Kentish [Fossils.] 5 Sheppey Fossils. 59 Gloucestershire [Fossils.] 112 Merian's Surinam Insects. On Snails and Worms being Hermaphrodites. Ray's Method of Plants Illustrated. Herbs of the same Class have similar Virtues. Virginian Cicada, Wasps, Bees, &c. [end of double column] The Two Volumes containing above Ten Thousand Articles, Engraved in the most Accurate Manner, from Originals, the Gifts of the most eminent Persons in all Nations. The Additions Corrected by the late Mr. James Empson, of the British Museum, &c. Volume I Containing [in two columns, divided by vertical double lines, left hand column:—] *Directions for Travellers*. *Gazophylacium Natura et Artis*. *Catalogus Classicus et Topicus*. Amboina and East-India Shells, &c. English Land and Water Beetles. Humble-Bees, &c. in five Classes. *De Animalibus Crustaceis*, &c. Fresh-Water Fishes. *De Cochleis Terrestribus ac Fluvialibus Britan.* [right hand column:—] *De Pectinibus*, *Pectunculis*, et *Ostreis Britannicis*. Sheppey Fossils. Fossils at Pyrtan-Passage in Gloucestershire. Merian's Surinam Insects. Snails and Worms Hermaphrodites. Ray's Method of English Trees and Shrubs. Herbs of the same Class have similar Virtues. Virginian Wasps, Bees, &c. [end of double column] [double rule]. London, Printed for John Millan, Bookseller, near White-Hall. 1767. [Price, Plain, 6£ 6s.—Flies &c. coloured, 7£. 7s.—The Whole coloured, 21£.]

[TITLE PAGE OF VOLUME TWO READS:]

Jacobi Petiveri Opera, . . . The Additions Corrected by the late Mr. James Empson, of the British Museum. Volume II. Containing [in two columns, divided by vertical double lines, left hand column:—] *Rudiments of Botany*. Ray's English Herbal. South-Sea [Herbal.] Italian and Egyptian [Plants.] American Plants. Montpelier [Plants.] [right hand column:—] *Silesian and Etrurian Plants*. 164 British Butterflies, &c. *Collectanea Petiveriana*. English Grasses, Fungus's, Mosses, &c. *Hortus Siccus*. [end of double column] [double rule] London, Printed for John Millan, Bookseller, near White-Hall. 1767. [Price, Plain, 6£. 6s.—Flies &c. coloured, 7£. 7s.—The Whole coloured, 21£.]

2°: [same].

CONTENTS: [Same].

VERY SCARCE. Verso of title: The contents of volumes I and II, between an ornamental headpiece above and an ornamental rule below, is printed in two columns divided by vertical double lines and followed by a list of books printed for J. Millan.

This edition consists of original copies of a number of works collected together within the compass of two folio volumes. Volume I contains the earlier octavo text reprinted in folio with certain new matter but is otherwise unchanged except that no. 62 has been transferred from volume II to the beginning of volume I. As indicated on the title-page, copies of the work were issued with the plates either coloured or plain, or with those in no. 67 only coloured. Although not often met with in any state, copies either wholly or partially coloured are very much scarcer than those containing plain plates. In the copy collated all the plates are uncoloured.

Verso of title: The contents of volumes I and II, between an ornamental headpiece above and an ornamental rule below, are printed in two columns divided by vertical double lines followed by a list of books printed for J. Millan.

Note: This volume has the same contents as no. 57 except that no. 62 has been transferred to the beginning of volume I. Plate I, *Otchides Etruriae*, in no. 6I does not appear as a separate plate and the text in no. 67 is printed on both sides of a single leaf. In the copy collated several of the items have been bound out of place and nos. 63, 75 and 78 are missing.

REFERENCES: Lisney, *Bibliography of British Lepidoptera*, 1960: nos. 92 & 95.

**3674. — Latin, 1764** [First collected edition].

Jacobi Petiveri | Opera, | *Historiam Naturalem* | *Spectantia*; | Or, | *Gazophylacium*. | Containing | Several 1000 Figures of Birds, Beasts, Reptiles, Insects, Fish, | Beetles, Moths, Flies, Shells, Corals, Fossils, Minerals, Stones, | Fungusses, Mosses, Herbs, Plants, &c. from all Nations, on | 156 Copper-Plates, with Latin and English Names. | The Shells, &c. have English, Latin, and Native Names. | [ornate rule] | Vol. I. | [ornate rule] | N.B. About 100 of these Plates were never published before. | [ornate rule] | London: | Printed for John Millan, near Whitehall. MDCCLXIV. Price 6£. 6s. | Where may be had (lately publish'd) Price 1£ 5s. | Dillenius's General History of Land and Water, &c. Mosses and Corals, containing all the | known Species, exhibited by about 1000 Figures, on 85 large Royal 4to Copper Plates, their | Names, Places of Growth and Seasons, in English, their Names in Latin referring to each Figure.

3 vols. [VOL 1] 2°: 55 p., 292 engraved plates.; [VOL 2] 2°: 93, [3] p., 2 engraved plates.; [VOL 3] 8°: 96 p., 2 engraved plates.

RARE. LISNEY: Petiver's scientific writings were chiefly concerned with zoology, botany and mineralogy and included papers in the *Philosophical Transactions* of the Royal Society. Most of his publications consisted of monographs, pamphlets and broadsheets many of which were illustrated.

His contribution to entomology in the seventeenth and early eighteenth centuries comes second only in importance to the work of John Ray, as exemplified chiefly by Ray's *Historia Insectorum* which was published posthumously. These two early naturalists between them laid a firm foundation to our knowledge of the entomology of Britain at that time.

The entomological references are included in a variety of miscellaneous zoological, botanical and other treatises published between 1695 and 1717. Although each species is classified by a concise descriptive sentence instead of a name, identification is a comparatively easy matter where plates are present because of the excellent drawings. It was not until publication of the *Systema Naturae* by Linnaeus in 1735 that a generic and specific name was given to each

## PETRINI

animal, flower and insect known to him.

I am convinced that all Petiver's works were issued separately as and when published and that any early volumes consisting of a number of them bound together was an arrangement by the purchaser and not the publisher. I do not, therefore, agree with Lowndes that most of Petiver's works, published between 1702 and 1715 and bound in volumes, constitute first editions.

Petiver probably intended his *Gazophylacium* to consist of two folio volumes of five decade each. The text in the first volume was printed on one side of the paper only so that it could be cut up and pasted on the front end paper and on the backs of the plates; by this means the appropriate text faces the plate to which it refers. Copies with printed dedications pasted at the bottom of each plate occur but more often these are not present. Later the text was printed on both sides of the paper. Examples of the first volume, one of which is in my possession, are very rare and a copy in my library of the second is, as far as I can ascertain, the only one recorded.

All Petiver's works are exceedingly rare and it is doubtful if copies of many of them still exist as separate publications. Undoubtedly a considerable number would have been lost to posterity entirely were it not for the fact that John Millan, publisher and extensive dealer in new and second-hand books, realizing how scarce Petiver's works were becoming even at that time bought up all available stocks and issued them bound together with special title pages and additional unpublished material by the same author. On the verge of the title-pages the publisher has noted that the last set of Petiver's works was sold through the trade for the sum of £20, a high price in those days compared with their original cost. In order to avoid confusion Petiver's publications are collated here under cover of the titles of these two collected editions; by no means all however contain references to British lepidoptera.

The first collected edition, published by Millan in 1764, consists of two folio volumes and one octavo. It is undoubtedly this disparity in size which has resulted in many sets being incomplete with the third octavo volume missing, having no doubt become separated on library shelves.

Three years later the second collected edition was published in two folio volumes and this also consists of original copies of Petiver's works bound together. The octavo text of the original third volume was reproduced in folio and some new material was also included.

REFERENCES: BL: [439.m.14.]. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 273-4. • Henrey, *British Botanical Literature*, 1975: nos. 1208-1225. • Lisney, *Bibliography of British Lepidoptera*, 1960: nos. 47 & 57.

### 3675. — Latin, 1764.

*Gazophylacii Naturæ & Artis*. ... [London, 1764].

2°: B-C<sup>2</sup> D<sup>1</sup>; 5ℓ.; [1]-10 p.

CONTENTS: 1-10, Text.

VERY SCARCE. This catalogue, with the Latin text printed in double columns, consists of additional

material which, together with plates 101 to 156, had not been published previously but were undoubtedly specially printed for the collected edition of 1764. No text relating to plate 156 appears to have been published.

REFERENCES: Lisney, *Bibliography of British Lepidoptera*, 1960: no. 53.

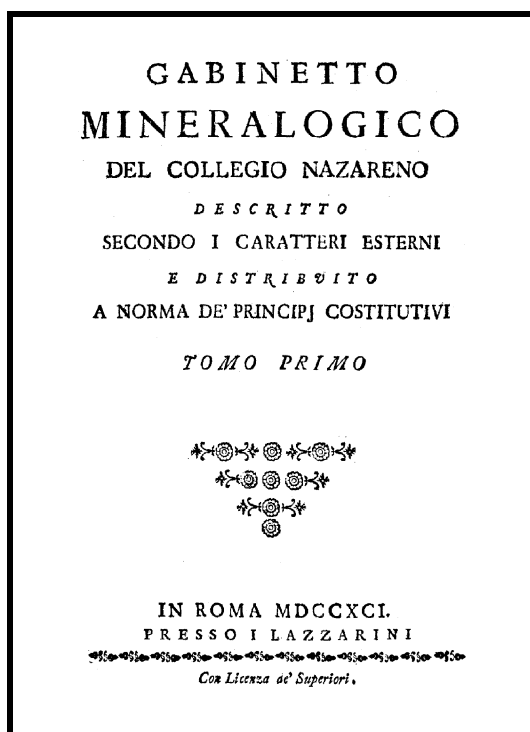
### 3676. — English, 1767.

*Jacobi Petiveri Opera*, *historiam naturalem spectantia*: containing several thousand figures of birds, beasts ... to which is now added seventeen curious tracts ... / the additions corrected by the late Mr. James Empson ... London: Printed for John Millan, Bookseller ..., 1767.

2 v., [292] leaves of plates

VERY SCARCE. Contributors Empson, James.

First published as *Opera* in 1764. In various pagings. Also known as *Petiver's Gazophylacium* (cf. Wood, 517)



GABINETTO MINERALOGICO, 1791

**PETRINI, Giovanni Vincenzo.** (BORN: ; DIED: ) *Italian.*

REFERENCES: ABI: I 772, 52. • Jöcher, *Gelehrten-Lexikon*, 1750-51. • WBI.

### 3677. — Italian, 1791-2 [Collection catalog].

Gabinetto | Mineralogico Dell Collegio Nazereno | Descritto | Secondo I Caratteri Esterni | E

Distribvito | A Norma De Principi Constitutivi  
| Tomo Primo [-Secondo] | [ornament] | In Roma  
MDCCXCI [-MDCCXCII]. | Presso I Lazzarini |  
[ornate rule] | Con Licenza de' Superiori.

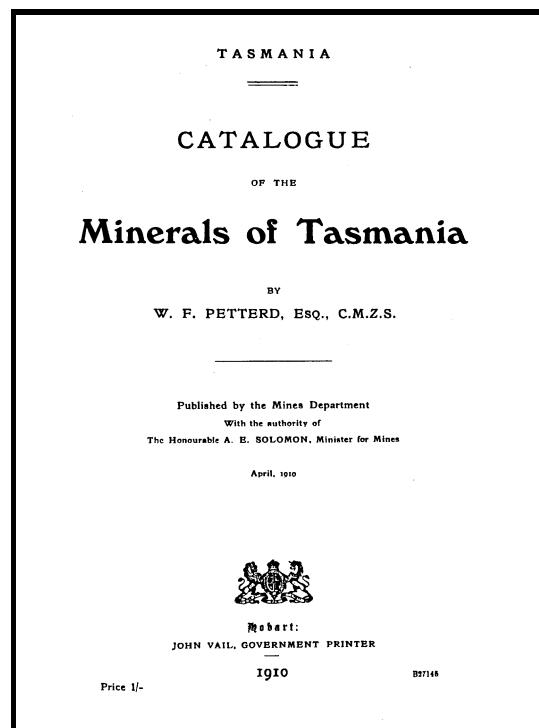
2 vols. [VOL 1] 8°: \*-\*\*8 \*\*\*10 a-aa<sup>8</sup>  $\chi^1$ ; 217 $\ell$ .;  
[i]-lii, 1-384, [2] p. [VOL 2] 8°: \*8 \*\*12 a-z<sup>8</sup> aa<sup>10</sup>; 214 $\ell$ .;  
[i]-xxxix, [1], 1-387, [1] p. PAGE SIZE: 206 x 138 mm.

CONTENTS: [Vol 1] [i-ii], Title page, verso blank.; iii-  
xiii, Dedication.; xiv-xli, "Prefazione."; xlii, "...Praepositus  
Generalis..."; xliii-xliv, "...Approvazopmo..."; xlv-lii,  
"Prospetto | Del Tomo Primo."; 1-378, Text.; 379-384,  
"Tavola | Delle Materie Fossili."; [1 pg], Errata.; [1 pg],  
Blank.

[Vol 2] [i-ii], Title page, verso blank.; iii-xxii,  
"Agli Studiosi Minerofili."; xxiii-xxviii, "Catalogo De'  
Benemeriti | Del Gabinetto Mineralogico | Del Collegio  
Nazareno."; xxix-xxxix, "Prospetto | Del Tomo Secondo.";  
[1 pg], Blank.; 1-382, Text.; 383-387, "Tavola | Delle  
Materie Del T. II."; [1 pg], Blank.

RARE. Extensive descriptive collection catalog of  
the mineral specimens held in at Nazareno College in  
Rome at the end of the 18th century. The preliminaries  
of the first volume provide some history of the formation  
of the collection and a synopsis of the new chemistry of  
LAVOISIER. The catalog then commences, classifying  
the specimens into a standard structure of salts, earths,  
bitumens and flammable bodies, and metals. Volcanic  
objects and fossils are given their own classifications  
and are treated at the end of volume two.

REFERENCES: LKG: XV 43.



CATALOGUE, 1910

**PETTERD, William Frederick.** (BORN: 1849; DIED:  
1910) *Australian mineralogist.*

REFERENCES: *Australasian Biographical Archive*: I 311,  
101 / S 70, 65-68. • Cleavelly, *World Palaeontological  
Collections*, 1983: 230. • Sarjeant, *Geologists*, 1980: 3, 1881.

**3678. — English, 1910.**

Tasmania | [double rule] | Catalogue | Of The  
| Minerals of Tasmania | By | W.F. Petterd,  
Esq., C.M.Z.S. | [rule] | Published by the Mines  
Department | With the authority of | The  
Honourable A. E. Solomon, Minister for Mines |  
April, 1910 | [ornament] | Hobart: | John Vail,  
Government Printer | [rule] | 1910 | Price 1/-.

8°: 221 p.

RARE. Topographical mineralogy of the Island  
of Tasmania, which is located of the eastern coast of  
Australia.

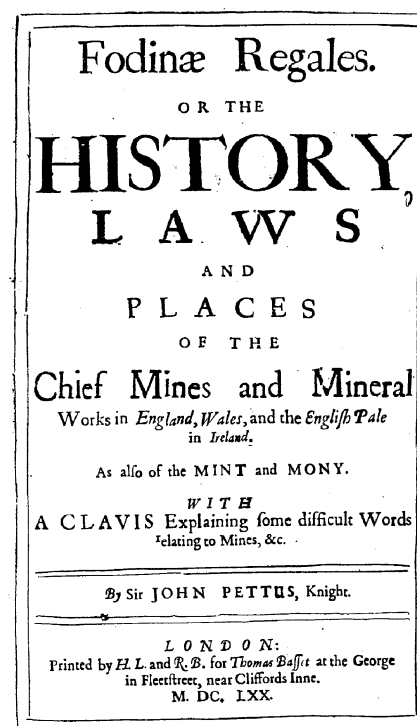
**New edition, 1970:** *Catalogue of the minerals of Tasmania.*  
Revised and amended 1969. Hobart, 1970. 110 p., 12 plates  
(part colored). [Published as *Tasmania. Dept. of Mines.  
Geological Survey record*, no. 9.]

REFERENCES: BL. • NUC.

**PETTUS, John.** (BORN: 1613; DIED: 1690) *English  
mining expert & colonial governor.*

Pettus was Knighted when only aged 28, and fought  
for Charles I, but was appointed deputy-governor of the  
royal mines by Cromwell in 1655. Elected a member of  
parliament for Dunwich in 1670.

REFERENCES: Allibone, *Dictionary of English Literature*,  
1859-71. • BBA: I 871, 92-97. • DNB. • Watt, *Bibliotheca  
Britannica*, 1824. • WBI.



FODINÆ REGALES, 1670

# PETTUS

## 3679. — English, 1670.

[Contained within a double rule box:] Fodinae Regales.  
| Or The | History, | Laws | And | Places |  
| Of The | Chief Mines and Mineral | Works in  
England, Wales, and the English Pale | in Ireland.  
| As also of the Mint and Mony. | With | A  
Clavis Explaining some difficult Words | relating  
to Mines, &c. | [double rule] | By Sir John Pettus,  
Knight. | [double rule] | London: | Printed by H.L.  
and R.B. for Thomas Basset at the George | in  
Fleetstreet, near Cliffords Inne. | M. DC. LXX.

2°:  $\pi^1$  A-Z<sup>2</sup> 2A-2I<sup>2</sup>; 65 $\ell$ .; [14], 1-108, [8] p.,  
frontispiece (portrait of Pettus). PAGE SIZE: 290 x  
180 mm.

CONTENTS: [Frontispiece].; [2 pages], Title page, verso  
blank.; [2 pages], Dedication to Prince Rupert, signed Jo.  
Pettus 1670.; [2 pages], Dedication, "To my Honored  
Friends of the Societies."—signed Jo. Pettus 1670.; [5  
pages], "An | Introduction | To This | History."; [1 page],  
Blank.; 1-108, Text.; [6 pages], "An Explanation of several  
Words used in | this History, as an EBay to the larger  
Dictionary | of Metallick and Chymical Words, mentioned  
| in the Preface."; [1 page], "Corrigenda."; [1 page], Blank.

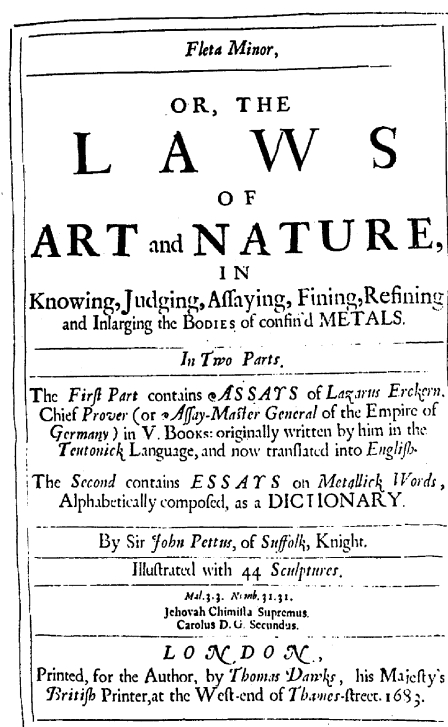
PLATES: The frontispiece shows a portrait of Pettus'  
bust within an octagonal frame. Underneath is the  
wording, "Iohannes Pettus Eqves | Avratvs Hic Tacens  
Ille Scribens | Alibi Loquens. Agens Patiens. Ætate.  
57- | 1670." The plate is signed, "W. Sherwin ad vivum  
faciabat."

VERY SCARCE. Only edition. This work was  
undertaken at the request of Prince Rupert, was the  
author's first publication. Pettus was deputy governor  
of the royal mines in England and Wales, serving both  
Charles I and II. The fine frontispiece portrait by  
William Sherwin, shows Pettus at the age of 57.

REFERENCES: BL. • Duveen, *Bibliotheca Alchemica et  
Chemica*, 1965: p. 468. • *Freilich Sale Catalog*: nos. 429-431.  
• Hoover Collection: no. 634. • LKG: XIV 405. • NUC. •  
Wing: P-1908.

## 3680. — English, 1683 [First edition, issue A].

[Contained within a double rule box:] Fleta Minor.  
| [rule] | The | Laws | Of | Art and Nature, |  
| In | Knowing, Judging, Assaying, Fining, Refining  
| and Inlarging the Bodies of confin'd | Metals.  
| [rule] | In Two Parts. | [rule] | The First  
contains Assays of Lazarus Erckern, | Cheif Prover  
(or Assay-Master General of the Empire of |  
Germany) in V. Books: oringinally written by him  
in the | Teutonick Language, and now translated  
into English. | The Second contains Essays on  
Metallick Words, as a | Dictionary to many  
pleasing Discoures. | [rule] | By Sir John Pettus, of  
Suffolk, K<sup>t</sup>. Of the Society for the | Mines Royal. |  
| [rule] | Illustrated with 44 Sculptures. | [rule] | Mal.  
3.3. Numb. 31.31. | Jehovah Chimista Supremus. |  
Carolus D.G. Secundus. | [rule] | London, | Printed,  
for the Author, by Thomas Dawks, his Majesty's  
British Printer, at the West-end of Thames-street.



FLETA MINOR, 1683

1683.

[TITLE OF SECOND PART READS:]

[Contained within a double rule box:] Fleta Minor, |  
| [rule] | Spagyrick Laws, | [rule] | The Second Part. |  
| [rule] | Containing | Essays | On | Metallick Words:  
| Alphabetically composed, as a Dictionary | To |  
Lazarus Erckern. | Illustrated with two Sculptures.  
| [rule] | By Sir John Pettus, of Suffolk, Knight. |  
| [rule] | Scire tuum nihil est, | Nisi te scire, hoc sciet  
alter. | [rule] | London, | Printed, for the Author,  
by Thomas Dawks, his Majesty's | British Printer,  
at the West-end of Thames-street. 1683.

2 parts in one volume. [Part 1] 2°:  $\pi^2$  B-C<sup>2</sup> 2A<sup>2</sup>  
[a]-[g]<sup>2</sup> A-4S<sup>2</sup> 4T<sup>1</sup>; 195 $\ell$ .; [44], 1-345, [1] p., frontispiece  
(portrait by R. White), 42 text engravings.; [Part 2]  
2°: [A]-[Mm]<sup>2</sup> [Nn]<sup>1</sup>; 71 $\ell$ .; [8], [1]-133, [1] p., 2 text  
engravings. Pages 1 to 80 are not numbered. Large  
gothic initials throughout. PAGE SIZE: 355 x 222 mm.

CONTENTS: [Part 1] [Frontispiece].; [2 pages], Title  
page, verso blank.; [2 pages], "Epistle Dedicatory."—signed  
John Pettus, 26 February 1683.; [2 pages], "To the Right  
Honourable, George Marquess, ..."—signed John Pettus.;  
[2 pages], "To the Noble and Honoured Subscribers |  
and Contributors to this Book."—signed John Pettus.;  
[2 pages], "To my Worthy Friend, Richard Manlove, Esq.  
..."—signed John Pettus.; [2 pages], "To the Courteous  
Reader."—signed John Pettus.; [4 pages], "The | Preface  
| Of | Lazarus Erckern, | To his following Books."; [18  
pages], "The first Part, | ... | The Contents of  
the Chapters..."; [9 pages], "The | Contents | Of The  
| Sculptures | ..."; [1 page], Errata; 1-345, Text.; [1 page],  
Blank.

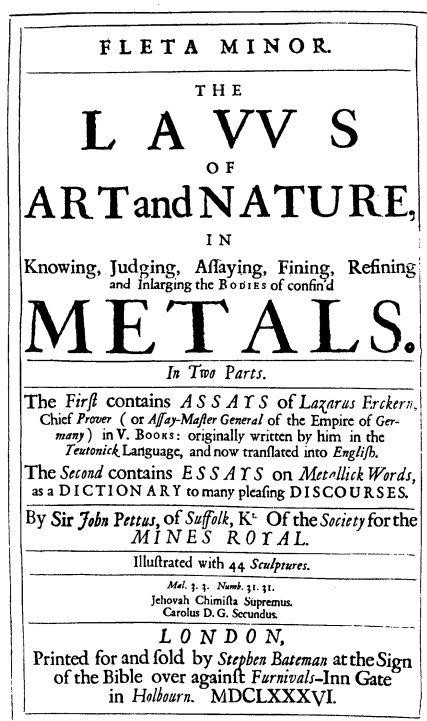
[Part 2] [2 pages], Title page, verso blank.; [6 pages], "Kind Reader, ..." [=subscriber's list].; [1]-133, Text [=dictionary of terms].; [1 page], Blank.

PLATES: Frontispiece: Portrait of Pettus's face and shoulders within an oval frame and seated on a pedestal. Text underneath reads: "Honestus at Pic. | AGRM. | Sr. John Pettus of Suffolk Kn.<sup>t</sup> 1641 | One of the Dep.<sup>ty</sup> Governors of y<sup>e</sup> Mines Royall, | 1651. Auratus Infletatus. 1679. The portrait is signed R. White, Sculp.

RARE. The first portion of this volume contain's Pettus' tranlation, the only ever done into English, of LAZARUS ERCKER's *Aula Subterranea Domina Dominantium Subdita Subditorum* (1st ed., Pragæ, 1574). This section by Ercker is one of the fundamental early texts in the field, containing considerable important information about the processes of mining and refining ores, including directions for building the requisite ovens and cauldrons. The second part, with its own title page dated 1683, which is Pettus' original contribution to the volume, contains "essays on metallick words, as a dictionary to many pleasing discourses." This is the first metallurgical dictionary in English consisting of a glossary of about 600 terms used in mineralogy, mining and assaying. The engraved illustrations are used for illuminating the technological detailed discussed in the text.

This work was reissued with a new title page in 1686, and it is that issue that is most commonly encountered.

REFERENCES: BL. • Dibner, *Heralds of Science*, 1955: 89. • *Freilich Sale Catalog*: no. 432. • *Honeyman Sale*: 6:2461. • Hoover Collection: no. 633. • LKG: VIII 1 & XVI 58. • NUC. • Wing: P-1906.



FLETA MINOR, 1686

**3681. — English, 1686** [First edition, issue B].

[Contained within a double rule box:] [in red:] Fleta Minor. | [in black:] The | [in red:] Lavvs | [in black:] of | [in red:] Art and Nature, | [in black:] In | Knowing, Judging, Assaying, Fining, Refining | and Inlarging the Bodies of confin'd | [in red:] Metals. | [in black, rule] | In Two Parts. | [rule] | The First contains Assays of Lazarus Erckern, | Chief Prover (or Assay-Master General of the Empire of Ger- | many) in V. Books: originally written by him in the | Teutonick Language, and now translated into English. | The Second contains Essays on Metallick Words, | as a Dictionary to many pleasing Discourses. | [rule] | By [in red:] Sir John Pettus, [in black:] of Suffolk, K<sup>t</sup>. Of the Society for the | Mines Royal. | [rule] | Illustrated with 44 Sculptures. | [rule] | Mal. 3. 3. Numb. 31. 31. | Jehovah Chimsta Supremus. | Carolus D.G. Secundus. | [rule] | [in red:] London, | [in black:] Printed for and sold by [in red:] Stephen Bateman [in black:] at the Sign | of the Bible over against Furnivals-Inss Gate | in Holbourn. MDCLXXXVI.

[TITLE OF SECOND PART READS:]

[Contained within a double rule box:] Fleta Minor, | [rule] | Spagyrick Laws, | [rule] | The Second Part. | [rule] | Containing | Essays | On | Metallick Words: | Alphabetically composed, as a Dictionary | To | Lazarus Erckern. | Illustrated with two Sculptures. | [rule] | By Sir John Pettus, of Suffolk, Knight. | [rule] | Scire tuum nihil est, | Nisi te scire, hoc sciet alter. | [rule] | London, | Printed, for the Author, by Thomas Dawks, his Majesty's | British Printer, at the West-end of Thames-street. 1683.

2 parts in one volume. [Part 1] 2°:  $\pi^2$  B-C<sup>2</sup> 2A<sup>2</sup> [a]-[g]<sup>2</sup> A-4S<sup>2</sup> 4T<sup>1</sup>; 195 $\ell$ .; [44], 1-345, [1] p., frontispiece (portrait by R. White), 42 text engravings. Title page in red and black.; [Part 2] 2°: [A]-[Mm]<sup>2</sup> [Nn]<sup>1</sup>; 71 $\ell$ .; [8], [1]-133, [1] p., 2 text engravings. Pages 1 to 80 are not numbered. Large gothic initials throughout. PAGE SIZE: 348 x 214 mm.

CONTENTS: Identical to the 1683 edition described in the previous entry.

VERY SCARCE. The more commonly encountered issue, which appears in comparing copies side-by-side to be identical to the 1683 edition, except for a new title page in red and black.

REFERENCES: BL. • NUC.

**PETZL, Joseph.** (BORN: Dorfen, Bavaria, Germany, 26 August 1764; DIED: Munich, Bavaria, Germany, 7 April 1817) *German theologian & naturalist.*

Petzl received an advanced degree in philosophy in 1783 and became a Deacon of the Johanniter Order. From 1790 until 1799, he lived in Malta. In 1803, he was transferred to Alten-Oetting in Bavaria, and in 1804, Petzl was made professor of physics and natural history at the Lyceum in Munich. He was elected a member of the Munich



## PFAFF

Academy of Science in 1802.

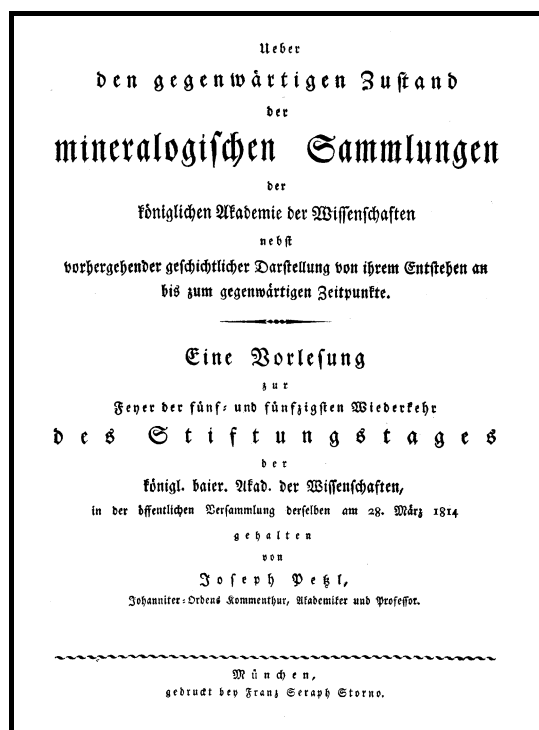
REFERENCES: DBA: I 947, 168-170; II 998, 126-127. • Poggendorff: 2, col. 421. • WBI.

### 3682. — German, 1807 [First edition].

Vorbereitende Oryktognosie zum Gebrauche seiner mineralogischen Vorlesungen am hiesigen königlichen Lizeum herausgegeben vom Kommenthur und Prof. Petzl ... München, Lentner, 1807.

8°: [6], 241 p. RARE.

REFERENCES: BL: [no copy listed]. • LKG: IX 30.



MINERALOGISCHEN SAMMLUNGEN, 1814

### 3683. — German, 1814 [Collection catalog].

Ueber | den gegenwärtigen Zustand | der | mineralogischen Sammlungen | der | königlichen Akademie der Wissenschaften | nebst | vorübergehender geschichtlicher Darstellung von ihrem Entstehen an | bis zum gegenwärtigen Zeitpunkte. | [ornate rule] | Eine Vorlesung | zur | Feyer der fünf- und fünfzigsten Wiederkehr | des Stiftungstages | der | königl. baier. Akad. der Wissenschaften, | in der öffentlichen Versammlung derselben am 28. März 1814 | gehalten | von | Joseph Petzl, | Johanniter-Ordens Kommenthur, Akademiker und Professor. | [wavy rule] | München, | gedruckt bey Franz Seraph Storno.

4°: 28 p.

RARE. A work giving a detailed account of donations and collections which had formed the mineralogical cabinet of the Munich Academy of Science up to 1814. Among those listed are Karl Theodor of the Pfalz, Moll, Cobres, Dolomieu, Schreber and Hausmann. Also included are descriptions of the collections arrangement including details of the most important pieces. [Entry by Andreas Mueller]

REFERENCES: BL: [T.965.(17.)]. • Murray, *Museums*, 1904: [no copy listed].

### PFAFF, Friedrich. (BORN: 1825; DIED: 1886) *German mineralogist.*

Pfaff was professor of mineralogy at the University of Erlangen.

REFERENCES: ADB. • DBA: I 948, 210. • WBI.

### 3684. — German, 1860.

Grundriss der Mineralogie. Nördlingen, Beck, 1860.

8°: xii, 293 p., 9 folding lithographic plates.

VERY SCARCE. This sketch of mineralogy is the authors principal work. The text covers the basic of the science.

REFERENCES: BL. • NUC.

### PFEIFFER, Johann Friedrich von. (BORN: 1718; DIED: 1787) *German professor.*

REFERENCES: ADB. • DBA: I 951, 92-109; 951, 111-112. • Hirsching, *Historisch-literarisches Handbuch*, 1794-1815. • Jöcher, *Gelehrten-Lexikon, Supplement*. • Meusel, *Verstorbenen Deutschen Schriftsteller*, 1802-16. • Poggendorff: 2, cols. 430-1. • WBI.

### 3685. — German, 1775.

Geschichte der Steinkohlen und des Torfs Von dem Verfasser des Lehrbegriffs sämtlicher ökonomischer und Cameral-Wissenschaften [von Johann Friedrich von Pfeiffer]. Mannheim, C.F. Schwan, 1775.

4°: 104 p. The story of coal and peat, both important mineral resources to the economy of the eighteenth century. VERY SCARCE.

REFERENCES: BL: [967.h.14.(2.)]. • LKG: XVI 417.

3686. French transl., 1787: Histoire du charbon de terre et de la tourbe, suivie de la méthode d'épurer ces deux combustibles, et d'en employer... les différens produits, par M. de Pfeiffer,... Ouvrage traduit de l'allemand [par Hendrik J. Jansen]. Paris, P. de Lormel, 1787.

8°: vi, 221 p. VERY SCARCE.

REFERENCES: BL.

3687. Supplement, 1777: Entdecktes allgemein brauchbares Verbesserungsmittel der Steinkohlen und des Torfs. Nebst der Benutzungsart aller daraus zu ziehenden Produkte. Als eine Ergänzung der Steinkohlen- und Torfs-Geschichte. Mannheim, Bei C.F. Schwan, 1777.

8°: 88 p. Title vignette.

VERY SCARCE. A supplemental volume to the author's *Geschichte der Steinkohlen und des Torfs* (1775).

REFERENCES: BL. • Hoover Collection: no. 635.

### PFGINGSTEN, Johann Hermann. (BORN: Stuttgart, Germany, 15 May 1751; DIED: Temesvar, Hungary, 1798/9) *German physician & mining expert.*

Pfingsten was appointed in 1782, an instructor of mining at the Bergakademie in Chemnitz, Hungary. In 1783, he was working as a private docent at the University of Tübingen, followed by a position as the inspector of

the saltpeter works in Magdeburg. In 1784, he became professor of philosophy at the University of Erfurt.

REFERENCES: ADB. • Baur, *Allgemeines historisches Handwörterbuch*, 1803. • DBA: I 952, 160-181; II 1001, 372-374. • Hamberger & Meusel, *Gelehrte Teutschland*, 1796-1834. • Hirsch, *Biographisches Lexikon*, 1884-8. • Hirsching, *Historisch-literarisches Handbuch*, 1794-1815. • Jöcher, *Gelehrten-Lexikon, Supplement*. • Meusel, *Verstorbenen Deutschen Schriftsteller*, 1802-16. • Poggendorff: 2, cols. 431-2. • WBI.

### 3688. — German, 1781-4.

Johann Hermann Pfingsten | [...2 lines of titles and memberships...] | [rule] | Bibliothek | Ausländischer Chemisten | Mineralogien | und mit | Mineralien beschäftigter Fabrikanten | nebst derley | Biographischen Nachrichten. | [rule] | Erster Band [-Vierter und letzter Band]. | [rule] | Arte perfcitur quod Natura dedit. | [ornate rule] | Nürnberg, | verlegt Johann Adam Stein. | 1781 [-1784].

4 vols. [VOL 1: 1781] 12°: xlvii, 618, [4] p., portrait of Johann Ernst Immanuel Walch. [VOL 2: 1782] 12°: xxx, 568, [6] p., portrait of Johann Albert Gesner. [VOL 3: 1783] 12°: xxii, 523 p., portrait of Franz Ernst Brückmann. [VOL 4: 1784] 12°: xiv, 623 p. portrait of Carl Friedrich Hundertmark.

RARE. Consists of German translations of chemical, metallurgical, and mineralogical works published abroad. Included in the collection are treatises by Walch, von Borch, Nicolas of Nancy, Gesner, Brongniart, Oesterreicher, Bergman, Buc'hoz and Salchow. Biographies are given of those whose portrait accompanies the volume.

Volume 3: Bergman, T.O., "Kurzer Abriss des Mineralreichs nach den nächsten Grundtheilen geordnet. Aus dem Lateinischen," 3, 507-623 (i.e., 523).

Volume 4: Buc'hoz, P.J., "Kunststücke für Fabrikanten die sich mit Mineralien beschäftigen. Aus der Schrift gezogen und übersetzt, welche vetittelt ist: Buchoz Recueil des secrets à l'usage des artistes, ... 1784.

REFERENCES: BL: [973.a.9-12.]. • BMC: 4, 1563. • Bolton, *Bibliography of Chemistry*, 1893: p. 736. • Duveen, *Bibliotheca Alchemica et Chemica*, 1965: p. 469. • LKG: VI 82. • NUC: 454, 330 [NP 0299072].

### 3689. — German, 1789-90 [Periodical].

Magazin | für die | Mineralogie und mineralogische Technologie. | [rule] | Von | Johann Herrmann Pfingsten, | [...5 lines of titles and memberships...] | Erster [-Zweite] Theil. | Mit Kupfern. | [ornate rule] | Halle, | bey Johann Jakob Gebauer. | 1789. 2 parts, with copper plates.

RARE. No more published.

REFERENCES: BL: [726.c.20.]. • LKG: VI 83a.

**PHILLIPS, Alexander Hamilton.** (BORN: Lawrenceville near Princeton, New Jersey, U.S.A., 15 May 1866; DIED: Princeton, New Jersey, U.S.A., 20 January 1937) *American biologist, mineralogist & crystallographer.*

Phillips graduated from Princeton in 1887, and immediately began a 49 year teaching career at that institution. He was for some years an instructor in biology, and afterwards analytical chemistry and mineralogy. In 1898, he was appointed assistant professor of mineralogy and in 1903 he succeeded H.B. CORNWALL as full professor of mineralogy. He was chairman of the organizing committee for the foundation in 1919 of the Mineralogical Society of America, becoming its president in 1931.

REFERENCES: ABA: I 1270, 390-391; II 473, 297-300. • *American Mineralogist*: 22 (1937), no. 11, 1094-8, portrait [by A.F. Buddington]. • Cleavelly, *World Palaeontological Collections*, 1983: 230. • *Mineralogical Magazine*: 25 (1939), 298 [by L.J. Spencer]. • *Proceedings of the Geological Society of America*: 1936, 241-8, portrait [by A.F. Buddington]. • Sarjeant, *Geologists*, 1980: 3, 1884. • WBI.

### 3690. — English, 1912.

Mineralogy | An Introduction To | The Theoretical And Practical | Study Of Minerals | By | Alexander Hamilton Phillips, D.Sc. | Professor Of Mineralogy In Princeton | University | New York | The Macmillan Company | 1912 | All rights reserved.

8°: [i]-viii, [2], [1]-699, [1] p., 533 text illus. PAGE SIZE: 218 x 130 mm.

CONTENTS: [i-ii], Half title page, "Mineralogy," verso "The Macmillan Company | ... 7 lines ..."; [iii-iv], Title page, verso "Copyright, 1912, | By The Macmillan Company."; v-vi, "Preface"—signed Alexander Hamilton Phillips, September 1912.; [vii]-viii, "Contents."; [1 pg], Sectional title page.; [1 pg], Blank.; [1]-680, Text.; [681]-699, "Index."

SCARCE. This basic mineralogical textbook bears a close resemblance to Miers' book on the subject. It is divided into 3 sections: I. Crystallography (pp. 1-218), II. Descriptive Mineralogy (pp. 219-545) and III. Determinative Mineralogy (pp. 546-680). Within crystallography, Phillips describes the various crystal systems, methods of drawing crystals, optical properties and the use of the goniometer. The section of descriptive mineralogy describes the origins of minerals, physical properties and the system of mineralogy based upon Dana's. Finally, within determinative mineralogy, are described various reagents and blowpipes. Included are three tables for the determination of the more common minerals: 1. by physical properties, 2. through thin sections and 3. by chemical tests. The heavily illustrated text concludes with a comprehensive index.

Reissue, 1921: Mineralogy | An Introduction To | The Theoretical And Practical | Study Of Minerals | By | Alexander Hamilton Phillips, D.Sc. | Professor Of Mineralogy In Princeton | University | New York | The Macmillan Company | 1921 | All rights reserved. 8°: [i]-viii, [2], [1]-699, [1] p., 533 text illus.

[i-ii], Half title page, "Mineralogy," verso "The Macmillan Company | ... 7 lines ..."; [iii-iv], Title page, verso "Copyright, 1912, | By The Macmillan Company."; v-vi, "Preface"—signed Alexander Hamilton Phillips, September 1912.; [vii]-viii, "Contents."; [1 pg], Sectional title page.; [1 pg], Blank.; [1]-680, Text.; [681]-699, "Index."

Scarce. Mechanical reproduction of the 1912 original edition.

REFERENCES: *Book Review Digest*: 1913, 412. • Dana's 7th (Bibliography): 78. • *Engineering News*: 68 (1912), 1121. • *Engineering Record*: 67 (1913), 308. • *Nature*: 91 (22 May

## PHILLIPS

1913), 291.

**PHILLIPS, John Arthur.** (BORN: 1822; DIED: 1887)  
*English geologist.*

REFERENCES: Allibone, *Dictionary of English Literature*, 1859-71. • BBA: I 874, 55-57. • Boase, *Modern English Biography*, 1892-1921. • WBI.

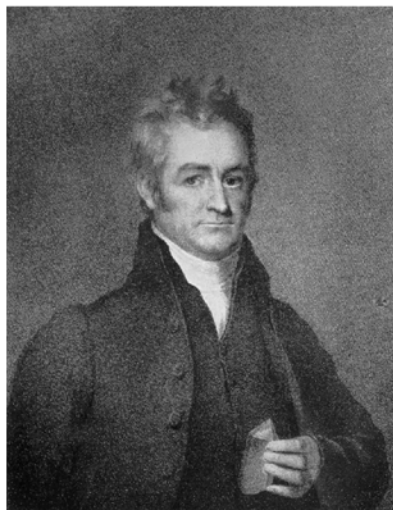
**3691. — English, 1891** [3rd edition].

Elements of Mineralogy. A Practical Treatise on the Art of Extracting Metals from Their Ores. Third Edition, Revised and Enlarged by H. Bauerman. London, Charles Griffin and Company, 1891.

8°: xxvi, 909 p., 3 folding plates, 238 illus.

VERY SCARCE. Covers fuels, ovens, furnaces, crucibles, iron, cobalt, nickel, copper, tin, the precious metals, etc.

REFERENCES: NUC.



PHILLIPS

**PHILLIPS, William.** (BORN: London, England, 10 May 1775; DIED: London, England, 2 April 1828)  
*English author, bookseller, mineralogist & geologist.*

Born into the Quaker faith as the son of James Phillips, printer and bookseller in London, William was the brother of the distinguished chemist Richard Phillips [1778-1851]. He early on became interested in mineralogy and geological studies to which he devoted all his leisure time. He participated in the foundation of the Geological Society of London in 1807. He wrote several popular works in the geological field, including *Outlines of the Geology of England and Wales* (London, 1822) with W.D. Conybeare [1815-1857]. This volume with its careful original observations, good descriptions and an innovative arrangement marked the beginning of a new era in English geological publications. Phillips was a elected a Fellow of the Royal Society in 1827 and the Linnean Society in 1819. The mineral "Phillipsite" was named after him by A. LÉVY in 1825.

REFERENCES: *American Journal of Science*: 1st Series, 15 (1829), 160. • Barr, *Index to Biographical Fragments*, 1973: 204. • BBA: I 874, 271-280. • Cleavelly, *World Palæontological Collections*, 1983: 231. • DNB: 15, 1107-8. • Drugulin, *Sechstausend Portraits*, 1863: no. 4230. • DSB: 10, 585-6

[by R.P. Beckinsale]. • Lambrecht & Quenstedt, *Catalogus*, 1938: 337. • Poggendorff: 2, cols. 433-4. • *Proceedings of the Geological Society, London*: 1 (1834), no. 10, 113. • Sarjeant, *Geologists*, 1980: 3, 1886. • Smith, *Early Mineralogy in Great Britain*, 1978. • WBI. • Woodward, *History of the Geological Society*, 1907: 13-7, portrait.

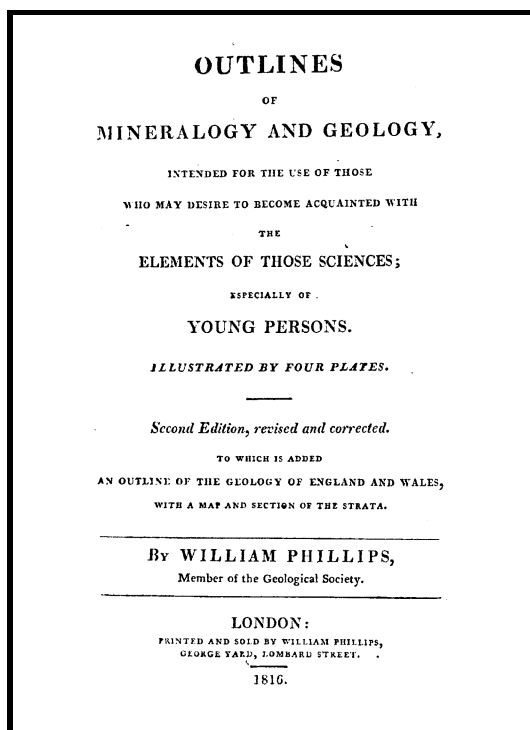
**3692. — English, 1815** [First edition].

An outline of mineralogy and geology, intended for the use of those who may desire to become acquainted with the elements of those sciences especially of young persons. London, Printed and sold by William Phillips, 1815.

8°: [12], 193 p., 4 plates (2 hand-colored).

VERY SCARCE. The apparently rare first edition of Phillips' influential textbook of mineralogy and geology, which became a standard of the time. It had several editions in England and America [which see below].

REFERENCES: BL: [B.233.(8.)]. • NUC: [no copy listed].



OUTLINES OF MINERALOGY, 1816

**3693. 2nd edition, 1816:** Outlines | Of | Mineralogy And Geology, | Intended For The Use Of Those | Who May Desire To Become Acquainted With | The | Elements Of Those Sciences; | Especially Of | Young Persons. | Illustrated By Four Plates. | [rule] | Second Edition, revised and corrected. | To Which Is Added | An Outline Of The Geology Of England And Wales, | With A Map And Section Of The Strata. | [rule] | By William Phillips, | Member of the Geological Society. | [rule] | London: | Printed And Sold By William Phillips, | George Yard, Lombard Street. | [rule] | 1816.

8°: a<sup>6</sup> A-I<sup>12</sup> K<sup>11</sup>; ??ℓ.; [12], [1]-226 p., 5 plates (some folding, hand-colored). PAGE SIZE: 176 x 104 mm.

CONTENTS: [Frontispiece]; [2 pgs], Title page, verso blank.; [1 pg], "Advertisement To The Second Edition."; [3 pgs], "Preface."; [6 pgs], Contents.; [1]-226, Text.

PLATES: There are 5 engraved plates. The first is signed W. Phillips del. It acts as a frontispiece and is titled "Comparative Heights of Mountains." Page 8, "Forms of Primitive Crystals." Page 105, "Section of the Brocken Mountain" (hand-colored); Page 143, "Veins in Tin Croft and the Pink Mines" (hand-colored); Page 181, "Geological Map of England and Wales" (hand-colored, folding).

VERY SCARCE. Developed as a text to accompany a series of subscription lectures given by Phillips during the winter of 1815, this work was intended as an elementary introduction to the sciences of mineralogy and geology. The clear writing style that is the trademark of the author contributed to the popularity of this small book, and undoubtedly lead to the issuing of several revised editions.

The text is divided into five lectures. The first on pages 1-27 gives preliminary observations about mineralogy and geology, and it describes simple and compound minerals. The second on pages 28-60 covers the properties of the metals and combustibles. The third lecture (pages 61-91) describes the purpose behind geological inquiry, while briefly describing various hypotheses about the earth and its formation. The origin of fossils on mountain tops is treated in the fourth section (pages 92-140), while on pages 141-192, the fifth lecture characterizes mineral veins, various mineral deposits like salt and coal, volcanoes, the Deluge and the internal structure of the earth. For any reader interested in becoming further acquainted with minerals, the preface plugs JOHN MAWE's establishment in the Strand where "small collections ... [of minerals] ... may be had of one hundred varieties and upwards, with an arranged catalogue ... at any price between \$5 and \$100." If the reader desires further reading in mineralogy, ARTHUR AIKIN's *Manual of Mineralogy* (London, 1815) is recommended. Of the plates, number 1 is used as a frontispiece and shows the comparative heights of mountains, number 2 shows primitive forms of crystals, number 3 a cross section of Brocken mountain and number 4 mineral veins in the Tin Croft and Pink Mines.

REFERENCES: BL. • NUC: [no copy listed].

**3694. American issue, 1816:** An | Outline | Of | Mineralogy And Geology; | Intended for the use of those | who may desire to become acquainted with | the | Elements of Those Sciences; | Especially Of | Young Persons. | Illustrated By Four Plates. | [double rule] | By William Phillips, | Member of the Geological Society. | [double rule] | New-York: | Printed And Sold By Collins And Co., | . . . . . | 1816.

12° in 6s: [A]-R<sup>6</sup>; 102ℓ.; [i]-xii, [1]-192 p., 4 plates (frontispiece, pages 8, 114 & 149; frontis & plate 4 are hand-colored).

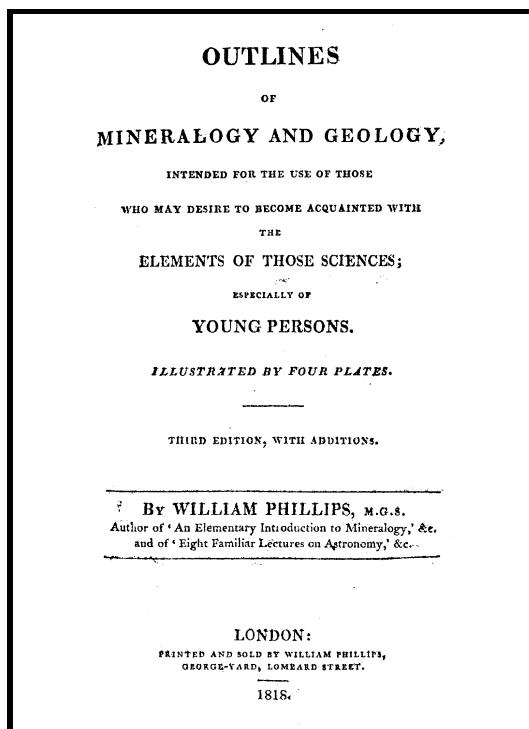
CONTENTS: [Facing title page is the frontispiece, "Comparative Heights of Mountains, see p. 105.]; [i-ii], Title page, verso blank.; [iii]-vi, "Preface."—signed W[illiam]. P[hillips]., 1815.; [vii]-xii, Table of contents.; [1]-192, Text.

VERY SCARCE. This American issue is an identical reprint of the second London edition of 1816 with a new title page.

**Facsimile reprint, 1978:** New York, Arno Reprint Corp., 1978. 8°: [4], [i]-xii, [1]-192 p., 4 plates (frontispiece, pages 8, 114 & 149; frontis & plate 4 are hand-colored).

REFERENCES: BL. • NUC: 456, 247-8 [NP 0329399].

**3695. 3rd edition, 1818:** Outlines | Of | Mineralogy And Geology; | Intended For The Use Of Those | Who May Desire To Become Acquainted With | The | Elements Of Those Sciences; | Especially Of | Young Persons. | Illustrated By Four Plates. | [short rule] | Third Edition, With Additions. | [rule] | By William Phillips, M.G.S. |



OUTLINES, 1818

[...2 lines of titles and memberships...] | [rule] | London: | Printed Aand Sold By William Phillips, | George-Yard, Lombard Street. | [short rule] | 1818.

8°: a<sup>7</sup> A-K<sup>12</sup> I<sup>6</sup> K<sup>4</sup>; 113ℓ.; [14], [1]-210, [2] p., 4 plates (2 hand-colored). PAGE SIZE: 168 x 98 mm. VERY SCARCE.

CONTENTS: [2 pgs], Title page, verso blank.; [1 pg], "Advertisement To The Third Edition."—signed W[illiam] P[hillips], March 1818.; [3 pgs], "Preface"—signed W.P., London, 1815.; [6 pgs], Contents.; [2 pgs], Advertisement.; [1]-210, Text.; [2 pgs], "Lately published by Wm. Phillips."

PLATES: The work contains 4 plates 2 of which are hand-colored, and only the first is signed. These are: Frontispiece, "Comparative Heights of Mountains," signed Wm. Phillips delin.; (p. 13) "Forms of Primitive Crystals."; (p. 122) "Section of the Brocken Mountains" (colored); (p. 165) "Veins in the Tin Croft and the Pink Mines" (colored).

REFERENCES: NUC: 456, 247-8 [NP 0329401].

**3696. 4th edition, 1826:** Outlines | Of | Mineralogy And Geology; | Comprehending The Elements Of Those Sciences; | Intended Principally For The Use Of | Young Persons. | [tapered rule] | Fourth Edition, Enlarged. | [tapered rule] | By William Phillips, F.L.S. F.G.S. &c. | [double rule] | [...3 lines of quotation, signed W.D. Conybeare...] | [double rule] | London: | Printed And Sold By William Phillips, | George Yard, Lombard Street. | [rule] | 1826.

4°: π<sup>4</sup> b<sup>4</sup> A-Z<sup>4</sup> 2A-2N<sup>4</sup> 2O<sup>2</sup>; 154ℓ.; [i]-xvi, [1]-292 p., frontispiece, text illus. PAGE SIZE: 202 x 130 mm.

CONTENTS: [i-ii], Title page, verso blank.; [iii]-iv, "Advertisement To The Fourth Edition."; [v]-vii, "Preface To The First Edition.", signed W[illiam]. P[hillips]., 1815.; [viii], "Lecture I. | ..."; [ix]-xvi, "Contents."; [1]-278, Text.; [279]-292, "Appendix | Heights Of Mountains."

VERY SCARCE. Updated to now include seven

## PHILLIPS

"lectures" covering generalities, crystallography, geology, petrology, mineral deposits, etc. Contains a separate list of mountains and their heights as shown on the engraved plate.

REFERENCES: NUC: 456, 247-8 [NP 0329402].

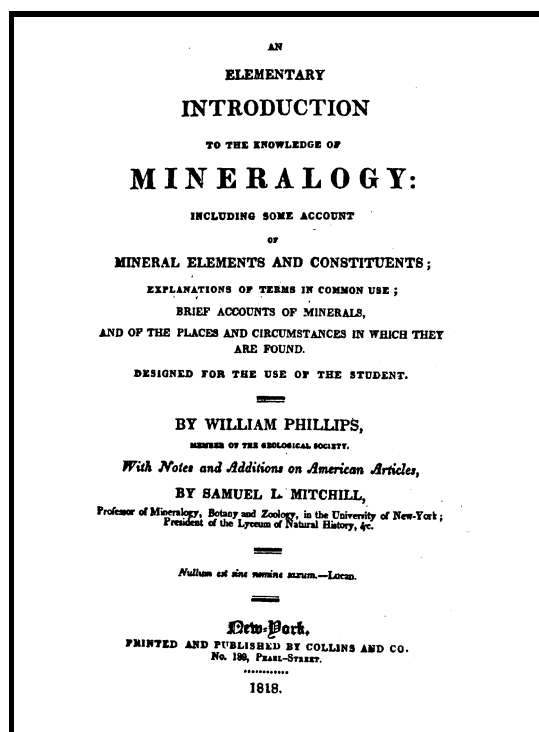
### Elementary Introduction

**3697. — English, 1816** [First edition].

An | Elementary Introduction | To The Knowledge Of | Mineralogy: | Including | Some Account Of Mineral Elements And Constituents; | Explanations Of Terms In Common Use; | Brief Accounts Of Minerals, An Of The Places And | Circumstances In Which They Are Found. | Designed For The Use Of The Student. | [rule] | By William Phillips, | Member Of The Geological Society. | [rule] | Nullum est sine nomine saxum. Lucan. | [tapered rule] | London: | Printed, And Sold By William Phillips, | George Yard, Lombard Street. | [rule] | 1816.

8°: [10], liv, [10], 325, [13] p. VERY SCARCE.

REFERENCES: Dana's 7th (Bibliography): 78. • NUC: 456, 247-8 [NP 0329393].



AMERICAN EDITION, 1818

**3698. American edition, 1818:** An | Elementary | Introduction | To The Knowledge Of | Mineralogy: | Including Some Account | Of | Mineral Elements And Constituents; | Explanations Of Terms In Common Use; | Brief Accounts Of Minerals, | An Of The Places And Circumstances In Which They | Are Found. | Designed For The Use Of The

Student. | [double rule] | By William Phillips, | Member Of The Geological Society. | With Notes and Additions on American Articles, | By Samuel L. Mitchell, | Professor of Mineralogy, Botany and Zoology, in the University of New-York; | President of the Lyceum of Natural History, &c. | [double rule] | Nullum est sine nomine saxum.— Lucan. | [double rule] | New=York. | Printed And Published By Collins And Co. | No. 189, Pearl-Street. | . . . . . | 1818.

8°: A5 \*B-\*D6 \*E4 2A6 B-X6 Y2; 155ℓ.; [i]-x, [i]-xxxiv, [10], [1]-246, [10] p. PAGE SIZE: 186 x 104 mm.

CONTENTS: [i-ii], Title page, verso "Southern District Of New-York, ss. | ..."; [iii]-viii, "Preface."—signed W[illiam] P[hillips], March 1816.; [ix]-x, "Preface, | By The Writer Of The American Notes."—Signed Samuel L. Mitchell, May 1818.; [i]-xxvi, "Introduction."; [xxvii]-xxxiv, "Explanation Of Terms. | Commonly used in Mineralogical Description."; [1 pg], "Table Of Contents | Showing the order in which the Minerals comprehended in | the following pages have been described."; [1 pg], Blank.; [7 pgs], "Contents."; [1 pg], Blank.; [1]-246, Text.; [9 pgs], "Index."; [1 pg], "Books | on | Geology And Mineralogy, | For Sale By | Collins & Co. | ..."

VERY SCARCE. Contains additional material supplied by SAMUEL L. MITCHELL.

REFERENCES: Dana's 7th (Bibliography): 78. • NUC: 456, 247-8 [NP 0329394].

**3699. 2nd edition, 1819:** An | Elementary Introduction | To The Knowledge Of | Mineralogy: | Comprising | Some Account Of The Characters And Elements Of Minerals; | Explanations Of Terms In Common Use; | Descriptions Of Minerals, | WithAccounts Of The Places And Circumstances In Which | They Are Found; And Especially | The Localities of British Minerals. | [rule] | By William Phillips, F.L.S. | Member Of The Geological Societies Of London And Cornwall | [rule] | Second Edition. | [rule] | Nullum est sine nomine saxum. Lucan. | [tapered rule] | London: | Printed, And Sold By William Phillips, | George Yard, Lombard Street. | [rule] | 1819.

8°: π<sup>6</sup> a-o<sup>4</sup> p<sup>2</sup> 2A-2K<sup>4</sup> 2L<sup>1</sup>; 197ℓ.; [i]-viii, [4], [i]-cxvii, [1]-266 p., illus. PAGE SIZE: 191 x 115 mm. VERY SCARCE.

CONTENTS: [i-ii], Title page, verso blank.; [iii]-viii, "Preface."—signed W[illiam]. P[hillips]., May 1819.; [4 pgs], "Contents | Forming an Index to the Introduction."; [i]-lxxxii, "Introduction."; [lxxxiii]-xcv, "Explanation Of Terms, &c. | Commonly used in mineralogical Description."; [xcvi]-xcviii, "Of the Arrangement in which Minerals are de- | scribed in the following pages."; [xcix]-cxvi, "Tabular Arrangement."; [1]-266, Text.

REFERENCES: Dana's 7th (Bibliography): 78. • NUC: 456, 247-8 [NP 0329395].

**3700. 3rd edition, 1823:** An | Elementary Introduction | To The Knowledge Of | Mineralogy: | Comprising | Some Account Of The Characters And Elements Of Minerals; | Explanations Of Terms In Common Use; | Description Of Minerals, | With Accounts Of The Places And Circumstances In Which They | Are Found; And Especially | The Localities Of British Minerals. | By William Phillips, F.L.S. M.G.S. L.&C. | Hon. Member of the Cambridge and Yorkshire Philosophical Societies. | [rule] | Third Edition, Enlarged. | [rule] | Nullum est sine nomine saxum. Lucan. | [rule] | London: | Printed And Sold By W. Phillips, George Yard, Lombard Street; | Sold Also By W. And C. Tait, Edinburgh; | And R. Milliken, Dublin. | [rule] | 1823.

8°: [8], v, [3], cxx, 406, [6] p., illus.

VERY SCARCE. The preliminary part gives physical and chemical characters of minerals, the use of the blowpipe and acids in analysis, constituents of the earths, alkalies and metals, explanation of terms and a discussion of the tabular arrangement of minerals. This is followed by the descriptive mineralogy. A French-German name index as well as an English one ends the work.

Phillips was an expert of the recently invented

reflecting goniometer. He used an instrument of his own design which was accurate to the degree half-minute in compiling the crystal measurements used in this work. As a consequence this edition contained for its time the most accurate body of crystal data in existence. This information showed conclusively that whenever a crystal form was not a perfectly regular solid, Haiiy's values were wrong. In some cases Phillips showed the discrepancies approached two degrees, and this further reinforced the decline of Haiiy's theory of crystals.

REFERENCES: Dana's 7th (Bibliography): 78. • NUC: 456, 247-8 [NP 0329396].

**3701. 4th edition, 1837:** An | Elementary Introduction | To | Mineralogy: | comprising | a notice of the characters and elements of minerals; | with accounts of the places and circumstances in which they | are found. | By William Phillips, | F.L.S. M.G.S. L. & C. | Hon. Member Of The Cambridge And Yorkshire Philosophical Societies. | [rule] | Fourth Edition, Considerably Augmented, | By Rober Allan, | F.R.S.E. M.G.S. L. & C. | London: | Longman, Rees, Orme, Brown, Green, & Longman; | J.G. & F. Rivington, Whittaker, & Co.; Tegg & Sons; | Simpkin, Marshall, & Co.; And C. Tilt. | [rule] | M.DCCC.XXXVII.

12°: [A]-D<sup>12</sup> 2A-2D<sup>12</sup> E-R<sup>12</sup> S<sup>9</sup>; 261ℓ.; [i]-xcvi, 1-425, [1] p., index, illus. PAGE SIZE: 192 x 114 mm.

CONTENTS: [i-ii], Title page, verso blank.; [iii], Dedication to John George Childern.; [iv], Blank.; [v]-vi, "Advertisement By The Editor."—signed Robert Allan, March 1837.; [vii]-xii, "Preface To The Third Edition."—dated 10 May 1823.; [xiii]-lxxviii, "Introduction."; [lxix]-lxxvi, "Explanation Of Terms | Used In Mineralogical Descriptions."; [lxxvii]-xcvi, "Of The Arrangement | In Which Minerals Are Described In The | Following Pages."; [Errata slip tipped in before page 1]; [1]-396, Text.; [397]-408, "Appendix: | Consisting Principally Of Minerals Of Which So Authen- | tic Analysis Has Hitherto Been Published, Or Respect- | ing Which Fuller Information Is Required Before | Their Place In The General Arrangement Can With | Accuracy Be Determined."; [409]-425, "Index."; [1 pg], Blank.

VERY SCARCE. Essentially nothing is left of Phillips' original work, except perhaps a lingering clarity in the writing. Mineralogy had progressed so much since Phillip's death that his ideas were now considered historic curiosities, but his name still commanded respect among the English public. Hence this edition was brought forward by ROBERT ALLAN, who made it a very readable volume.

REFERENCES: Dana's 7th (Bibliography): 78. • NUC: 456, 247-8 [NP 0329391].

**3702. 5th edition, 1844:** An | Elementary Treatise | on | Mineralogy: | comprising | An Introduction To The Science; | by | William Phillips, F.L.S. M.G.S.L.&C. | Hon. Member Of The Cambridge And Yorkshire Philosophical Societies. | Fifth Edition, | From The Fourth London Edition, By Rober Allan: | Containing The Latest Discoveries In | American And Foreign Mineralogy; | With Numerous Additions To The Introduction. | By Francis Alger, | [...3 lines of titles and memberships...] | [ornate rule] | Boston: | William D. Ticknor & Co. | M. DCCC. XLIV.

8°: [4], [i]-vi, [2], [vii]-cl, [2], [1]-662, [2] p. PAGE SIZE: 210 x 120 mm. VERY SCARCE.

CONTENTS: [2 pgs], Half title page, verso quotation from Professor Cleaveland.; [2 pgs], Title page, verso "Entered according to Act of Congress, in the year 1844, | ..."; [i]-vi, "Preface."—signed F[rancis]. A[lger]., 20 May 1844.; [1 pg], Sectional title page, "Introduction To Mineralogy. | [rule] | Part I."; [1 pg], Blank.; [vii]-viii, "Contents To The Introduction."; [ix]-xviii, "Preface To The Third Edition."—signed W.P., May 1819.; [xix]-cl, "Introducticon."; [1 pg], "Descriptive Mineralogy. | [rule] | Part II."; [1 pg], Blank.; [1]-597, Text; [598], Blank.; 599-634, "Supplement."; [635]-640, "Explanation Of Terms |

Used In | Mineralogical Descriptions."; [641]-662, "Index."; [1 pg], Errata.; [1 pg], Blank.

REFERENCES: *American Journal of Science*: 1st Series, 47 (1844), 333-51. • Dana's 7th (Bibliography): 78. • *North American Review*: 59 (1844), 240-43 [by B. Silliman, Jr.]. • NUC: 456, 247-8 [NP 0329397].

**3703. 6th edition, 1852:** An | Elementary Introduction | To | Mineralogy, | By The Late | William Phillips. | [rule] | New Edition, | With Extensive Alterations And Additions, B by | H.J. Brooke, F.R.S. F.G.S. | And | W.H. Miller, M.A. F.R.S. F.G.S. | Professor Of Mineralogy | In The University Of Cambridge. | [rule] | London: | Longman, Brown, Green, And Longmans; Simpkin, Marshall, And | Co.; F. And J. Rivington; Whittaker And Co.; Tegg And Co.; | And D. Bogue. | 1852.

12°: π<sup>6</sup> B-Z<sup>12</sup> 2A-2G<sup>12</sup> H<sup>2</sup>; 356ℓ.; [i]-xi, [1] errata, [1]-700 p., 647 illus., index to mineral species. PAGE SIZE: 194 x 122 mm.

CONTENTS: [i-ii], Half title page, "An | Elementary Introduction | to | Mineralogy," verso "London: | Gilbert And Rivington, Printers, | St. John's Square."; [iii-iv], Title page, verso blank.; [v]-vii, "Preface."—signed H.J.B. [Henry James Brooke]; [viii], Blank.; [ix]-xi, "Contents."; [1 page], "Errata."; [1]-108, "Introduction."; [109]-634, "Description of Species."; [635]-686, "Appendix."; [687]-700, "Index."

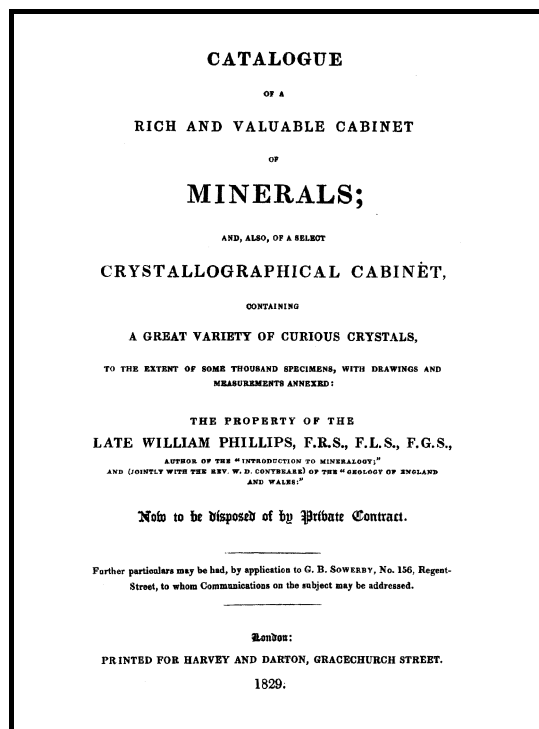
VERY SCARCE. Co-authored with HENRY JAMES BROOKE and WILLIAM HALLOWES MILLER, this work is one of the best textbooks of crystallography and mineralogy ever published. In printing sequence this work would be considered a sixth edition of William Phillips' *Introduction to Mineralogy* (1st ed., London, 1816). Written as it was, however, a quarter century after Phillips death, with thorough revision and updating, this work quite appropriately has been known ever since its publication as "Brooke & Miller." In the preface, Brooke writes that his contribution to the work was in supplying "such specimens and crystals as it appeared desirable again to examine and measure. In every other respect the treatise has been composed and arranged entirely by Professor Miller."

The volume begins with an introduction to the science, the first significant portion of which is devoted to crystallography. The system adopted is essentially the same as that Miller first presented in his earlier *A Treatise on Crystallography* (Cambridge, 1839). The names adopted for the six systems of crysallization are *cubic*, *pyramidal*, *rhombohedral*, *prismatic*, *oblique*, and *anorthic*. Figures are given in the descriptive mineralogy, illustrating the crystallization of the species. The crystallographic notation employed are the Indices of Miller. Other sections of the introduction describe the optical, physical and chemical properties of minerals. The descriptive mineralogy based upon chemical makeup then follows. Species are listed with notes about their common synonyms, their known crystal forms, their chemistry following RAMMELSBERG's analyses, their optical characters including refraction and polarization and other physical properties. An appendix lists minerals which are not fully described or of doubtful composition. The work closes with an index to the species listed.

REFERENCES: *American Journal of Science*: 1st Series, 15 (1853), 41-48. • NUC: 456, 247-8 [NP 0329392].

**3704. — English, 1829** [Sale catalog].

Catalogue | Of A | Rich And Valuable Cabinet | Of | Minerals; | And, Also, Of A Select | Crystallographical Cabinet, | Containing | A Great Variety Of Curious Crystals, | To The Extent Of Some Thousand Specimens, With Drawings And | Measurements Annexed: | The Property Of The | Late William Phillips, F.R.S., F.L.S., F.G.S., |



CATALOGUE, 1829

[...3 lines of titles and memberships...] | Now to be disposed of by Private Contract. | [rule] | Further particulars may be had, by application to G.B. Sowerby, No. 156, Regent- | Street, to whom Communication on the subject may be addressed. | [rule] | London: | Printed For Harvey And Darton, Gracechurch Street. | 1829.

4°:  $\pi^2$  B-L<sup>4</sup> M<sup>1</sup>; 43 $\ell$ .; [i]-iv, [1]-82 p. PAGE SIZE: 212 x 136 mm.

CONTENTS: [i-ii], Title page, verso blank.; [iii]-iv, "Notice."; [1]-82, Text of catalog.

RARE. Auction sale catalog of Phillip's large mineral collection, of which many specimens were used to illustrate Phillips textbooks on mineralogy. The text of the catalog follows the physical arrangement of the collection by briefly describing the specimens contained in each of the 100 drawers of the cabinet, together with locality information. The cabinet was arranged according to the last edition of Phillips' *Mineralogy* (London, 1823), and consist of a total of about 1,000 selected specimens, that embrace nearly all of the mineral species then known, as well as many of the varieties. Although heavy on specimens from English localities, the remainder of the world is well represented in this cabinet of minerals.

This large mineral collection was sold in its entirety at auction to Dr. John Rutter of Liverpool. Rutter apparently added a few other specimens, and bequeathed it to the Medical Institution of Liverpool.

Subsequently, the collection was transferred in 1887 to the Liverpool Museum. There it was completely destroyed during the Second World War in the bombing raids of May 1941, and so this rare sale catalog is the only lasting record of Phillips mineral collection.

REFERENCES: Cleavelly, *World Palaeontological Collections*, 1983: 231. • Wilson, *History of Mineral Collecting*, 1994: 220.

#### PICCOLI DEL FAGGIOL, Gregorio.

REFERENCES: ABI: I 780, 32-33. • Jöcher, *Gelehrten-Lexikon, Supplement*. • WBI.

#### 3705. — Italian, 1739.

Ragguaglio di una Grotta, ove sono molte ossa di belve diluviane nei monti Veronesi, e dei luoghi in quei contorni; e strati di pietra, tra i quali stanno i Corni Ammoni; e ove si ritrovano altre produzioni marittime. ... Aggiuntevi ... cosmoterree ed astronomiche descrizioni dei sistemi ... del mondo, ... con riflessioni sopra queste materie. Verona, Nella Stamperia dei Fratelli Merlo, 1739.

4°: [8], 42 p., one folding leaf of plates, maps. Three plates are pasted together to make one folded leaf of plates. Map on title page of earth in two hemispheres.

RARE. A comparison of a grotto or cave where many fossilized bones of wild animals had been recovered. The location was located near Verona. The author compared them to the bones of living animals. There is also information concerning astronomical descriptions, and speculation on the systems of the worlds.

REFERENCES: BL: [B.365.(3.)]. • LKG: XIV 635.

#### PIEPENBRING, Georg Heinrich. (BORN: 1763; DIED: 1806) *German apothecary*.

REFERENCES: DBA: I 957, 264-283. • Hamberger & Meusel, *Gelehrte Teutschland*, 1796-1834. • Jöcher, *Gelehrten-Lexikon, Supplement*. • Poggendorff: 2, cols. 447-8. • WBI.

#### 3706. — German, 1794.

Kurzgefasster Grundriss der Mineralogie für Anfänger dieser Wissenschaft, tabellatisch entworfen von einem Ungemaunten, herausgegeben, mit einer Vorrede und Anmerkung versehen von Georg Heinrich Piepenbring, ... Leipzig, 1794.

4°:

RARE. A short sketch of mineralogy, written with the beginner in mind, and providing tables to display the most important information.

REFERENCES: BL: [726.f.12.]. • LKG: XII 134.

#### PIETSCH, Johann Gottfried.

#### 3707. — French, 1750.

Dissertation Sur La Génération Du Nitre Qui A Remporté Le Prix De L'Académie En MDC-CXLIX. Par M. Le Docteur Pietsch ... Berlin, Chez Haude Et Spener, 1750.

4°: 56 p. Dissertation on the formation and manufacture of Saltpetre, an important ingredient in the preparation of gunpowder. VERY SCARCE.

REFERENCES: BL: • NUC.

**3708. German transl., 1750:** Abhandlungen von der Erzeugung des Salpeters, welche bey der Königl. Academie der Wissenschaften in Berlin den Preiß erhalten hat aufgesetzt von J. G. Pietsch. Berlin, Haude und Spener, 1750.

4°: 46 p. RARE.

REFERENCES: LKG: XVI 391.

#### PILATI, Cristoforo.

**3709. — Italian, 1769** [Periodical].

Saggio di Storia Naturale Bresciana dato in luce da C.P. Brescia, 1769.

4°.

VERY SCARCE. All published. Edited by Cristoforo Pilati, this is a collection of observations on the natural history in the vicinity of Brescia in Lombardy in Italy. There is probably some mention of the regions minerals.

REFERENCES: BL: [661.e.19.]. • LKG: XIV 641.

**PILLA, Leopoldo.** (BORN: Venafrò, Terra di Lavoro, Italy, 20 October 1805; DIED: Curtatone, Italy, 29 May 1848) *Italian geologist.*

In 1841 Pilla was appointed professor of mineralogy and geology at the University of Pisa. He died at a young age.

REFERENCES: ABI: I 786, 232-256; II 469, 409-413. • Poggendorff: 2, cols. 452-3. • WBI.

**3710. — Italian, 1840.**

Studi di Geologia ovvero conoscenze elementari della Scienza della Terra. Parte I. Trattato mineralogico del Rocce. Napoli, 1840.

8°: XVI, 136 p. VERY SCARCE.

**3711. — Italian, 1845.**

Breve Cenno | Sulla | Ricchezza Minerale | Della Toscana | Di Leopoldo Pilla | [...2 lines of titles and memberships...] | [ornament] | Pisa 1845 | Typis Rocco Vannucchi.

8°: 224, [2] p. PAGE SIZE: 216 x 124 mm.

VERY SCARCE. This topographical mineralogy presents an account of the mineral riches in the region around Tuscany, Italy.

**Related work:** Pilla wrote a useful study recounting the development of mineralogy and geology in Italy: "Cenno storico sui progressi della Oritognosia e della Geognosia in Italia," *Il Progresso della Scienze delle Lettere e delle Arti*, 2 (1832), pp. 37-81, 3 (1832), pp. 165-234 & 5 (1833), pp. 5-41.

REFERENCES: Ward & Carozzi, *Geology Emerging*, 1984: no. 1783.

**PILLER, Mathias.** (BORN: Graz, Austria, 25 April 1733; DIED: Budapest, Hungary, 10 October 1788) *Austrian jesuit.*

REFERENCES: DBA: I 958, 363-366. • Papp, *Magyar Topografikus*, 2002: p. 408. • WBI. • Wurzbach, *Biographisches Lexikon Österreich*, 1856-91.

**3712. — Latin, 1778.**

Elementa Historiae Naturalis in usum Scholarum Grammaticarum et Gymnasiorum per Ragnum Hungariae et Provincias eidem admexas ... Budae, Typis Regiae Universitatis, 1778.

3 parts in one volume. 8°:

RARE. In 1778, the third part of Piller's *Elementa Historiae Naturalis* appeared. It deals with the mineral realm, and, although written in Latin, is the first textbook published in Hungary in the subject. It is targeted at primary and secondary education students.

**Contents:** Pars 1, completens regnum animale; Pars 2, completens regnum vegetabile; Pars 3, completens regnum minerale.

REFERENCES: Papp, *Magyar Topografikus*, 2002.

**3713. — Latin, 1783.**

Iter per Poseganam Sclavoniae provinciam, mensibus Junio et Julio anno M.DCCLXXXII. susceptum a Mathias Piller et Ludwig Mitterpacher. Budae, 1783.

4°: 147 p., 16 plates.

RARE. Co-authored with Ludwig Mitterpacher. This is an account of a natural history trip taken by the authors in June and July of 1782. Included are notes on the mineralogy of the areas travelled through.

REFERENCES: BL: 151.d.9.. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 200. • LKG: XIV 854.

**3714. — Latin, 1792.**

Collectio naturalium quae e triplici regno minerali, animali et vegetabili undequaque completa post obitum ... Mathiae Piller ... reperta est. Græcij, 1792.

8°:

VERY RARE. Published after the author's death, this is the first printed catalogue of a natural history collection including minerals to be published on a Hungarian collection (Piller's). It is divided into three divisions of mineral, animal and vegetable.

REFERENCES: BL: [7383.d.15.(2.)].

**PILLING, Matthias Zacharius.** (BORN: ?; DIED: Altenberg, Germany, 1674) *German physician.*

REFERENCES: DBA: I 958, 398-399. • Hirsch, *Biographisches Lexikon*, 1884-8: ?? . • Jöcher, *Gelehrten-Lexikon*, 1750-51. • WBI.

**3715. — Latin, 1674.**

Bitumen | & | Lignum | Fossile Bitumi- | nosum | Cum Indice gemino, | descriptum | à | D. Matthia Zacharia Pillingen, | Medico Altenburgensi.. | [rule] | Altenburgi, | Typis Gothofredi Richteri, Typ. Aul. | Anno 1674.

8°: [8], 114, [6] p.

VERY RARE. This lengthy work appears to deal primarily with coal, petroleum, peat, and the like, which were of tremendous importance in the seventeenth century German economy.

REFERENCES: Gatterer, *Mineralogischen Literatur*, 1798-9: 2, 158. • LKG: XVI 261. • VD17: 39:115410N.



## PINI

**PINI, Ermenegildo.** (BORN: 1739; DIED: 1825) *Italian mathematician & naturalist.*

Pini was a member of the Order of the Barnabites, and was employed as a professor of natural history at the University of Milan. He wrote many works founded on the natural sciences. His *Introduzione allo Studio della Storia Naturale* (Milano, 1773; [10], 13-165 p.) contains a history and bibliography of these sciences.

REFERENCES: ABI: I 788, 47-58; II 470, 312-313; II S 65, 191-197. • Benvenuti, *Dizionario degli Italiani all'Estero*, 1890. • *Biographie Universelle*: 33, 369 [Born 1741]. • De Tipaldo, *Biografia degli Italiani*, 1834-45. • Ferchl: 413. • Imperatori, *Dizionario di Italiani all'Estero*, 1956. • Nagler, *Neues allgemeines Künstler-Lexikon*, 1835-52. • *Nouvelle Biographie Générale* (Hoefel): 40, 271. • Poggendorff: 2, cols. 454-5. • Rovida, C., *Elogio di Ermenegildo Pini*. Milano, G. Truffi, 1832. 141 p. [OkU]. • WBI.

### 3716. — Italian, 1777.

Osservazioni | Mineralogiche Su La Miniera | Di Ferro Di Rio | Ed Altre Parti | Dell' Isola D'Elba. | Di | Ermenegildo Pini | C.R.B. | [ornament] | [ornate rule] | In Milano presso Giuseppe Marelli. | Con licenza de' Superiori. | M. DCC. LXXVII.

12°: 110 p., one folding plate, one folding map.

RARE. In this mineralogical monograph, there is a description of the iron mines of the Island of Elba.

REFERENCES: BL: [665.b.7.]. • Hoover Collection: no. 641. • LKG: XIV 532. • NUC: 459, 72-3 [NP 0374901]. • Ward & Carozzi, *Geology Emerging*, 1984: no. 1786.

**3717. German transl., 1780:** Mineralogische Beobachtungen über die Eisengrube bey Rio und in andern Gegenden der Insel Elba von Ermenegildo Pini. Aus dem Italiänischen ins Teutsche übersetzt, und mit den neuern Bemerkungen Herrn Köstlin u.a. vermehrt, nebst einer Abhandlung von besondern Kristallgestalten des Feldspats, herausgegeben von Johann Friedrich Gmelin. Halle, bey Johann Jacob Gebauer, 1780.

8°: [10], 158 p., [4] leaves of plates.

RARE. Translation by Karl Heinrich Köstlin [1754/5-1783] of *Osservazioni Mineralogiche sur la Miniera di Ferro* (Milano, 1777) and edited by Johann Friedrich Gmelin [1748-1804]. There is also some additional commentary supplied by the translator and editor.

**Another German transl., 1792:** *Mineralogische Beobachtungen über die Eisen-Bergwerke, auf der Insel Elba*, published in: Friedrich August Weber's, *Mineralogische Beschreibungen merkwürdiger Gebirge und Vulkane Italiens*, vol. 2 (1792). [BL, 972.g.33.].

REFERENCES: LKG: XIV 533a. • NUC: 459, 72-3 [NP 0374898]. • Roller & Goodman, *Catalogue*, 1976: 2, 304.

### 3718. — French, 1779.

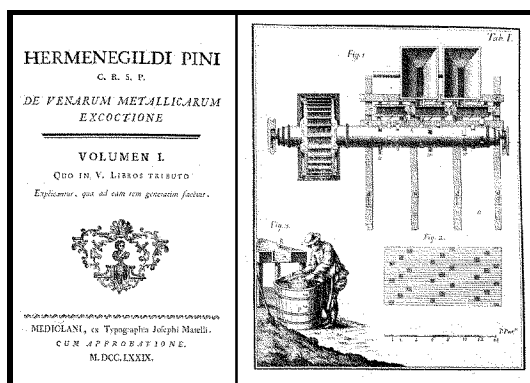
Memoire | Sur Des Nouvelles | Cristallisations | De Feldspath | Et Autres Singularités Renfermées | Dans Les Granites Des Environs | De Baveno. | Par Hermenegilde Pini Barnabite | Professeur d'Histoire Naturelle | à Milan. | [ornament] | À Milan chez Joseph Marelli | Avec approbation. | MDCCLXXIX.

8°: 62 p., [2] fold. leaves of plates

VERY SCARCE. Description of the various crystallization forms of feldspar found in the granite surrounding Baveno, Italy. This particular feldspar occurrence is noted for a well developed and specific type

of twin now now as a "Baveno twin," due to this first comprehensive study.

REFERENCES: BL: [B.410.(2.)]. • LKG: XIV 648. • NUC: 459, 72-3 [NP 0374896]. • Roller & Goodman, *Catalogue*, 1976: 2, 304. • Ward & Carozzi, *Geology Emerging*, 1984: no. 1787.



DE VENARUM METALLICARUM EXCOCTIONE, 1779

### 3719. — Latin, 1779-80 [First edition].

Hermenegildi Pini | C.R.S.P. | De Venarum Metallicarum | Excoctione | [double rule] | Volumen I. | Quo in V. Libros tributo | Explicantur, quæ ad eam rem generatim faciunt. | [ornament] | [ornate rule] | Mediolani, ex Typographia Josephi Marelli. | Cum Approbatione. | M.DCC.LXXIX.

2 vols. [VOL 1: 1779] 8°: [8], 275, [2] p., 12 folded leaves of plates. [VOL 2: 1780] 8°: [12], 235 (i.e., 335), [1] p., 24 folded leaves of plates. Pages 334-335 misnumbered 234-235.

RARE. Describes the metallic minerals and mineral industries.

REFERENCES: BL: [1651/1641.]. • Hoover Collection: no. 640. • NUC: 459, 72-3 [NP 0374889]. • Roller & Goodman, *Catalogue*, 1976: 2, 304.

**3720. Another edition, 1780-1:** H. Pini de venarum metallicarum excoctione. Vindobonæ, 1780-1.

2 vols. VERY RARE.

REFERENCES: BL: [445.d.10.].

### 3721. — Italian, 1783 [First edition].

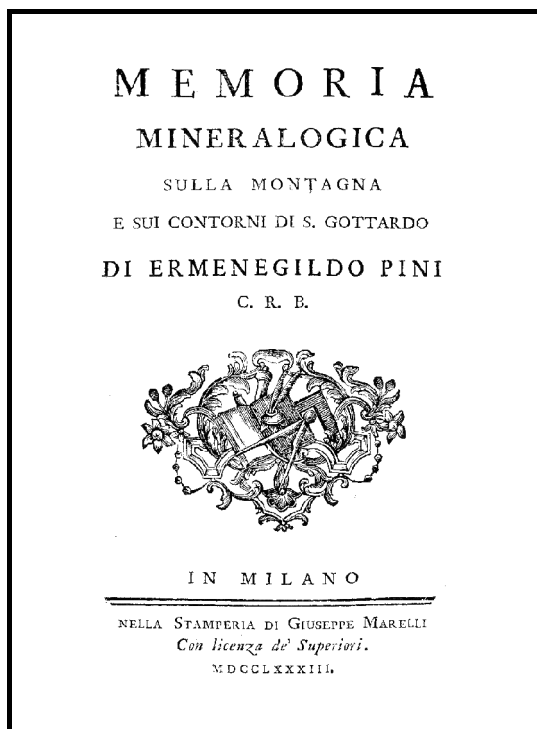
Memoria | Mineralogica | Sulla Montagna | E Sui Contorni Di S. Gottardo | Di Ermenegildo Pini | C.R.B. | [ornament] | In Milano | [double rule] | nella Stamperia di Giuseppe Marelli | Con licenza de' Superiori. | MDCCLXXXIII.

8°: [16], 128 p., one plate.

VERY SCARCE. Description of the mineralogical wonders around St. Gothard in the Alps.

REFERENCES: BL: [B.237.(2.)]. • LKG: XIV 485. • NUC: 459, 72-3 [NP 0374897].

**3722. German transl., 1784:** Hermenegild Pini | über den | S. Gotthardsberg | und seine | umliegenden Gegenden. | [rule] | Aus dem | Italienischen übersetzt. | [ornament] | [double rule] | Wien, | in der Johann Paul Kraußischen Buchhandlung, | 1784.



MEMORIA MINERALOGICA, 1783

8°: [12], 188, [2] p., one map. VERY SCARCE.  
 REFERENCES: BL: [726.f.2.(2.)]. • LKG: XIV 486a.  
 • NUC: 459, 72-3 [NP 0374906]. • Roller & Goodman, *Catalogue*, 1976: 2, 304.

### 3723. — Italian, 1790.

Di Alcuni Fossili Singolari della Lombardia Austriaca, e di Altre Parti dell'Italia Memoria di Ermenegildo Pini nella quale Trattasi pure di un Vulcanosupposto nella Lombardia Medesima ... Milano, 1790.

8°: 48 p.

VERY SCARCE. Petrology.

REFERENCES: LKG: XIV 649a. • NUC: 459, 72-3 [NP 0374894].

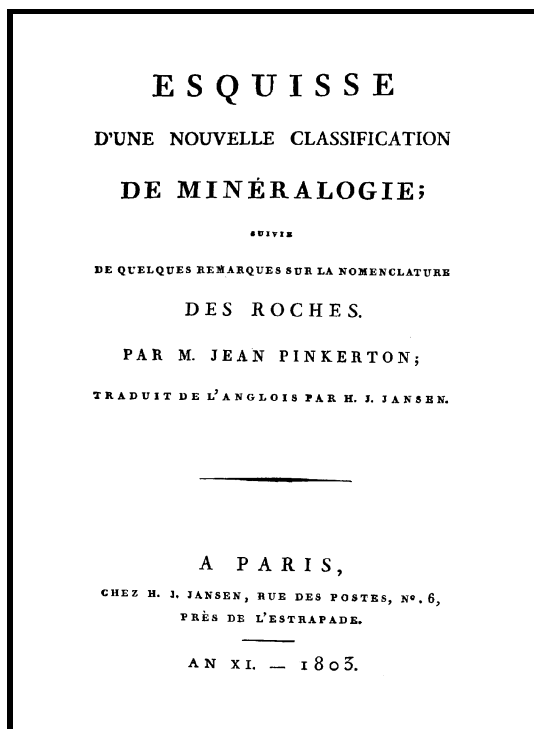
**PINKERTON, John.** (BORN: Edinburgh, Scotland, 27 February 1758; DIED: Paris, France, 10 May 1826) *Scottish antiquarian & historian.*

Pinkerton lived in many places Europe throughout his life, authoring works on geography and travel. He is best remembered for his *General Collections of Voyages and Travels* (13 vols., London, 1808-13), which contain abstracts and translations of previous published works.

REFERENCES: Allibone, *Dictionary of English Literature*, 1859-71. • BBA: I 878, 238-298; 1230, 442. • *Biographie Universelle*. • DNB. • *Eminent Scotsmen*. • *Encyclopaedia Britannica*, 11th edition. • Poggendorf: 2, cols. 455-6. • Waller, *Dictionary of Universal Biography*, 1857-63. • Watt, *Bibliotheca Britannica*, 1824. • WBI.

### 3724. — French, 1803.

Esquisse | D'Une Nouvelle Classification | De



ESQUISSE D'UNE NOUVELLE CLASSIFICATION, 1803

Minéralogie; | Suivi | De Quelques Sur La Nomenclature | Des Roches. | Par M. Jean Pinkerton; | Traduit De L'Anglois Par H.J. Jansen. | [tapered rule] | A Paris, | Chez H.J. Jansen, Rue Des Postes, N° 6, | Près De L'Estrapade. | [rule] | An XI.—1803.

8°:  $\pi^4$  1-64; 28 $\ell$ .; [i]-viiij, [1]-46, [2] p. PAGE SIZE: 215 x 135 mm. uncut.

CONTENTS: [i-ii], Title page, verso blank.; [iii]-viiij, "Préface."; [1]-46, Text.; [1 pg], "Sous Presse Chez Le Même Libraire."; [1 pg], Blank.

RARE. The present work is an attempt at classification according to a new system of names.

Translator the same as the French edition of Francq de Berkhey?? Also the publisher of this book???

**H.J. Jansen.** (BORN: ; DIED: ) *Dutch translator.* Same as the publisher / printer H.J. Jansen. Or, this may refer to Heinrich Jansen [1741-1812], Dutch translator. See References.

REFERENCES: LKG: XII 162. (**Jansen**) *Biographie Universelle*. • *Nouvelle Biographie Générale* (Hoefer).

**3725. English transl., 1811:** Petrology. | A | Treatise on Rocks. | By J. Pinkerton. | Vol. 1. | [vignette] | London. | Printed For White, Cochrane & Co. Fleet Street. | By S. Hamilton & Co. Weybridge. | 1811.

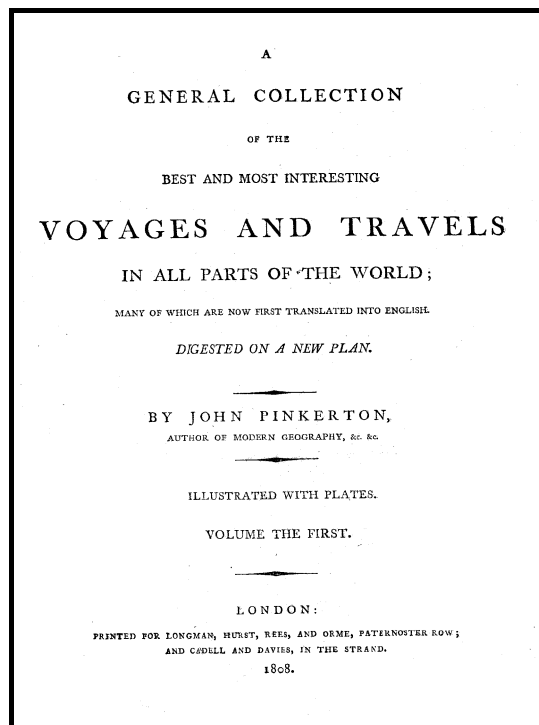
2 vols. [VOL 1] 8°:  $\pi^1$  a-c<sup>8</sup> d<sup>4</sup> B-Pp<sup>8</sup> Qq<sup>4</sup>; 328 $\ell$ .; [2], [i]-lv, [1], [1]-599, [1] p., engraved title page with vignette. [VOL 2] 8°:  $\pi^1$  a<sup>8</sup> b<sup>2</sup> B-Tt<sup>8</sup>; 339 $\ell$ .; [2], [i]-xx, [1]-656 p., 3 plaves. PAGE SIZE: 225 x 135 mm. SCARCE.

CONTENTS: [Vol 1] [2 pgs], Engraved title page, verso blank.; [i]-xlvii, "Introduction."; [xlviii], Blank.; [xlix]-li, "Contents | Of The First Volume."; [lii], Blank.; [liii]-

## PINKERTON

lv, "Corrections And Additions."; [1 pg], Blank.; [1]-599, Text.; [1 pg], Blank.

[Vol 2] [2 pgs], Title page, verso blank.; [i]-xvi, "Introduction."; [xvii]-xx, "Contents | Of The Second Volume."; [1]-590, Text.; [591], "Appendix."; [592], Blank.; [593]-637, Text of appendix.; [638], Blank.; [639]-651, "Index."; [652], Blank.; 653-654, "Plates In Vol. I. [-Vol. II]."; 655-656, Publisher's list.



GENERAL COLLECTION, 1808

### 3726. — English, 1808-14 [First edition].

A | General Collection | Of The | Best And Most Interesting | Voyages And Travels | In All Parts Of The World; | Many Of Which Are Now First Translated Into English. | Digest On A New Plan. | [tapered rule] | By John Pinkerton, | Author Of Modern Geography, &c. &c. | [tapered rule] | Illustrated With Plates. | Volume The First [-Seventeenth]. | [tapered rule] | London: | Printed For Longman, Hurst, Rees, And Orme, Paternosters Row; | And Cadell And Davies, In The Strand. | 1808 [-1814].

17 vols. [VOL 1: 1808] 4°:  $\pi^1 A^2 a^1 2a^4 b^2 B-5P^4 5Q^2$ ;  $??\ell$ ; [6], [i]-xiv, [1]-851, [1] p., 10 plates. [VOL 2: 1808] 4°:  $\pi^2 a^1 B-5N^4 5O^1$ ;  $??\ell$ ; [6], [1]-833, [1] p., 12 plates. [VOL 3: 1809] 4°:  $\pi^2 B-6A^4$ ;  $??\ell$ ; [4], [1]-919, [1] p., 14 plates. [VOL 4: 1809] 4°:  $\pi^2 B-4Y^4 4Z^1$ ;  $??\ell$ ; [4], [1]-722 p., 18 plates. [VOL 5: 1809] 4°:  $\pi^2 B-6K^4$ ;  $??\ell$ ; [4], [1]-992 p., 13 plates. [VOL 6: 1809] 4°:  $\pi^2 B-5Y^4 5Z^5$ ;  $??\ell$ ; [4], [1]-913, [1] p., 4 plates. [VOL 7: 1811]

4°:  $\pi^2 B-5L^4 5M^3$ ;  $??\ell$ ; [4], [1]-821, [1] p., 13 plates. [VOL 8: 1811] 4°:  $\pi^2 B-5F^4$ ;  $??\ell$ ; [4], [1]-776 p., 18 plates. [VOL 9: 1811] 4°:  $\pi^2 B-5M^4 5N^2$ ;  $??\ell$ ; [4], [1]-828 p., 8 plates. [VOL 10: 1811] 4°:  $\pi^2 B-5E^4 5F^1$ ;  $??\ell$ ; [4], [1]-770 p., 8 plates. [VOL 11: 1812] 4°:  $\pi^2 B-6E^4$ ;  $??\ell$ ; [4], [1]-952 p., 15 plates. [VOL 12: 1812] 4°:  $\pi^2 B-4Q^4 4R^3$ ;  $??\ell$ ; [4], [1]-678 p., 16 plates. [VOL 13: 1812] 4°:  $\pi^2 B-5S^4 5T^2$ ;  $??\ell$ ; [4], [1]-876 p., 9 plates. [VOL 14: 1813] 4°:  $\pi^2 B-5S^4 5T^5$ ;  $??\ell$ ; [4], [1]-881, [1] p., 11 plates. [VOL 15: 1814] 4°:  $\pi^2 B-5O^4$ ;  $??\ell$ ; [4], [1]-839, [1] p., 16 plates. [VOL 16: 1814] 4°:  $\pi^2 B-6A^4 6B^2$ ;  $??\ell$ ; [4], [1]-917, [1] p., 2 plates. [VOL 17: 1814] 4°:  $\pi^2 a-e^4 B-2K^4 A-3M^4 3N^5$ ;  $??\ell$ ; [4], [i]-xxxix, [1], [1]-255, [1], [1]-472 p. PAGE SIZE: 280 x 220 mm.

CONTENTS: [Vol 1] [2 pgs], Title page, verso "Strahan and Preston, | Printers-Street, London."; [2 pgs], "Advertisement."; [2 pgs], "Contents | Of The | First Volume."; [i], "List Of The Plates In Volume I."; [ii], Blank.; [iii]-viii, "Preface | Explaining The | Plan And Arrangement Of This Work."; [ix]-xi, "A | General | Table Of Contents." (for all 17 volumes); [xii]-xiv, "A | General | List Of Plates." (for all 17 volumes); [1]-851, Text.; [1 pg], Blank.

[Vol 2] [2 pgs], Title page, verso "Strahan and Preston, | Printers-Street, London."; [1 pg], "Contents | Of The | Second Volume."; [1 pg], Blank.; [1 pg], "List Of The Plates In Volume II."; [1 pg], Blank.; [1]-833, Text.; [1 pg], Blank.

[Vol 3] [2 pgs], Title page, verso "Strahan and Preston, | Printers-Street, London."; [1 pg], "Contents | Of The | Third Volume."; [1 pg], "List Of The Plates In Volume III."; [1]-913, Text.; [1 pg], Blank.

[Vol 4] [2 pgs], Title page, verso "Strahan and Preston, | Printers-Street, London."; [1 pg], "Contents | Of The | Fourth Volume."; [1 pg], "List Of The Plates In Volume IV."; [1]-722, Text.

[Vol 5] [2 pgs], Title page, verso "Strahan and Preston, | Printers-Street, London."; [1 pg], "Contents | Of The | Fifth Volume."; [1 pg], "List Of The Plates In Volume V."; [1]-992, Text.

[Vol 6] [2 pgs], Title page, verso "Strahan and Preston, | Printers-Street, London."; [1 pg], "Contents | Of The | Sixth Volume."; [1 pg], "List Of The Plates In Volume VI."; [1]-913, Text.; [1 pg], Blank.

[Vol 7] [2 pgs], Title page, verso "Strahan and Preston, | Printers-Street, London."; [1 pg], "Contents | Of The | Seventh Volume."; [1 pg], "List Of The Plates In Volume VII."; [1]-821, Text.; [1 pg], Blank.

[Vol 8] [2 pgs], Title page, verso "Strahan and Preston, | Printers-Street, London."; [1 pg], "Contents | Of The | Eighth Volume."; [1 pg], "List Of The Plates In Volume VIII."; [1]-776, Text.

[Vol 9] [2 pgs], Title page, verso "Strahan and Preston, | Printers-Street, London."; [1 pg], "Contents | Of The | Ninth Volume."; [1 pg], "List Of The Plates In Volume IX."; [1]-828, Text.

[Vol 10] [2 pgs], Title page, verso "Strahan and Preston, | Printers-Street, London."; [1 pg], "Contents | Of The | Tenth Volume."; [1 pg], "List Of The Plates In Volume X."; [1]-770, Text.

[Vol 11] [2 pgs], Title page, verso "Strahan and Preston, | Printers-Street, London."; [1 pg], "Contents | Of The | Eleventh Volume."; [1 pg], "List Of The Plates In Volume XI."; [1]-952, Text.; [1 pg], Blank.

[Vol 12] [2 pgs], Title page, verso "Strahan and Preston, | Printers-Street, London."; [1 pg], "Contents | Of The | Twelfth Volume."; [1 pg], "List Of The Plates In Volume XII."; [1]-678, Text.

[Vol 13] [2 pgs], Title page, verso "Strahan and Preston, | Printers-Street, London."; [1 pg], "Contents | Of The | Thirteenth Volume."; [1 pg], "List Of The Plates

In Volume XIII.”; [1]-876, Text.

[Vol 14] [2 pgs], Title page, verso “Strahan and Preston, | Printers-Street, London.”; [1 pg], “Contents | Of The | Fourteenth Volume.”; [1 pg], “List Of The Plates In Volume XIV.”; [1]-881, Text.; [1 pg], Blank.

[Vol 15] [2 pgs], Title page, verso “Strahan and Preston, | Printers-Street, London.”; [1 pg], “Contents | Of The | Fifteenth Volume.”; [1 pg], “List Of The Plates In Volume XV.”; [1]-839, Text.; [1 pg], Blank.

[Vol 16] [2 pgs], Title page, verso “Strahan and Preston, | Printers-Street, London.”; [1 pg], “Contents | Of The | Sixteenth Volume.”; [1 pg], “List Of The Plates In Volume XVI.”; [1]-917, Text.; [1 pg], Blank.

[Vol 17] [2 pgs], Title page, verso “Strahan and Preston, | Printers-Street, London.”; [1 pg], “Contents | Of The | Third Volume.”; [1 pg], Blank.; [i]-xxxix, “Prospect | Of The | Origin And Progress Of Discovery, | By Sea And Land, | In Ancient, Modern, And The Most Recent Times.”; [1 pg], Blank.; [1]-255, “Catalogue | Of | Books Of Voyages And Travels.”; [1 pg], Blank.; [1]-472, “Index.”

VERY SCARCE. An elaborate collection of voyage accounts, containing details of virtually every major voyage to date, often for the first time in English. “Of great value for its texts” (Hill), Pinkerton’s *General Collection* also contains one of the earliest bibliographies on Australasia and the Pacific. This 255-page catalogue found in volume 17 lists voyages by geographical location, and includes sections on world voyages, Australasia, New Holland, and Polynesia; followed by a detailed analytical index, certainly one of the most ambitious ever attempted, comprising in its 472 pages everything from Aa to Zwelendam. The author’s summary in the same volume discusses the achievements of Cook from a contemporary perspective: “The Voyages of Cook may therefore be regarded as forming an illustrious epoch.. the old catalogues of pictures and statues, with trifling adventures by sea and land, which were called books of travels, have sunk into obscurity before the new and important works”. Pinkerton concludes his remarks on Cook with the note that “...an English colony was sent to Australia, which will infallibly diffuse illuminations over that remote quarter of the world” (p. i).

REFERENCES: Beddie, M.K., *Bibliography of Captain James Cook, R.N., F.R.S., Circumnavigator*. Second edition. Sydney, Library of New South Wales, 1970. xvi, 894 p. [Standard bibliography covering all aspects of Cook literature, including that of his associates, imaginative literature, biographies, etc.]: no. 77. • Hill, *The Hill Collection of Pacific Voyages*, 1974-83: p. 236. • Sabin, *Dictionary*, 1868-1936: no. 62957.

**3727. 1810-4:** A general collection of the best and most interesting voyages and travels in all parts of the world; many of which are now first translated into English. Digested on a new plan. By John Pinkerton ... London, Longman, Hurst, Rees, and Orme [etc.] 1810-14. (Vols. 1-6 published, Philadelphia, Kimber & Conrad, 1810-2).

17 vols. “Catalogue of books of voyages and travels,” vol. 17, p. [1]-255. Vols. I-IV published in Philadelphia. VERY SCARCE.

**PINNOCK, William.** (BORN: 1782; DIED: 1843) *English educator.*

REFERENCES: Allibone, *Dictionary of English Literature*, 1859-71. • BBA: I 878, 348-349. • WBL.

**3728. — English, c1822.**

A | Catechism | Of | Mineralogy; | or, | An

Introduction | to the | Knowledge Of | The Mineral Kingdom. | [tapered rule] | Adapted To The | Capacities Of Youth, | and calculated no less to amuse than to instruct | them. | [rule] | By A Friend To Youth. | [rule] | London: | Printed By Bensley And Son, | Bolt Court, Fleet Street, | For Pinnock And Maunder, | 267, Strand.

8°: 72 p., one plate.

VERY SCARCE. Other titles in the series:

Pinnock, William. A Catechism of the First Principles of Natural History. A Catechism of Entomology. A Catechism of Mineralogy. A Catechism of Geology. A Catechism of Conchology. A Catechism of the Elements of Botany. Catechism of Agriculture. London: Whittaker Treacher & Co., 1823-35. 7 tracts bound together; 72 pp. each. Many b/w illustrations. Contemporary brown speckled cloth, gilt lettering on spine.

REFERENCES: NUC.

**PIROLI, A.**

**3729. — Italian, 1841** [Collection catalog].

Catalogo Sistematico e Descrittivo delle Specie di Minerali posseduti da A.P. Parma, 1841.

8°: VERY SCARCE.

REFERENCES: Partsch, *Katalog der Bibliothek*, 1851: no. 480 [attributes authorship to A. Pirol].

**PISA (Pisae).**

**3730. — Latin, 1533.**

Speculum Metallorum et Lapidum. August, 1533.

4°: VERY RARE.

REFERENCES: BL. • LKG: XVI 16.

**PISANI DE SERRES, Felix.** (BORN: Constantinople, Turkey, 28 April 1831; DIED: Rue de Furstenberg, France, 7 November 1920) *French chemist, mineral dealer & writer.*

Pisani’s father was in the Russian diplomatic service. His mother was daughter of Félix de Serres, professor of chemistry at Clermont-Ferrand. In 1854, he entered into C.F. Gerhardt’s private school of chemistry in Paris, which, when Gerhardt was appointed to Strasbourg in 1855, passed into the hands of Emil Kopp, and later to Pisani himself. Later, the laboratory was removed to Rue de Furstenberg, where in addition to teaching private classes in chemistry and various consulting work, Pisani carried on an active business dealing in minerals and geological specimens. As early as 1869, he sold specimens to the British Museum. His laboratory was a natural meeting place for Parisian mineralogists before the founding of the French Mineralogical Society in 1878. His principal work was in the chemical analysis of minerals. The species “Pisanite” was named after him in 1860.

REFERENCES: *Bull. Soc. Chim. Paris*: 27 (1920), 892. • Cleavelly, *World Palaeontological Collections*, 1983: 233. • *Mineralogical Magazine*: ?? (19??), 254-5, portrait. • Poggendorff: 3, 1043-4. • Sarjeant, *Geologists*, 1980: 3, 1896.

**3731. — French, 1875** [First edition].

Traité Élémentaire de Minéralogie... Précédé d’une Préface par M. Des Cloizeaux... Paris, G. Masson, 1875.

## PISO

8°: [7], 407, [1] p., 184 woodcut illus.

VERY SCARCE. An elementary textbook in mineralogy the standard topics are covered and include descriptions of the physical properties, chemical properties and mineral descriptions. The famous French mineralogist DES CLOIZEAUX has added a preface, and apparently the work had some popularity being issued in three ever larger editions to 1890.

REFERENCES: NUC.

**3732. 2nd edition, 1883:** *Traité Élémentaire* | De | *Minéralogie* | Par | M.F. Pisani | [short rule] | Précédé D'Une Préface | Par M. Des Cloizeaux | De L'Institut | [short rule] | Deuxième Édition Revue Et Augmentée | Avec 192 figures dans le texte | Paris | G. Masson, Éditeur | Libraire De L'Académie De Médecine | 120, Boulevard Saint-Germain, en face de l'École de Médecine | [short rule] | M DCCC LXXXIII.

8°: 192 woodcut illus. VERY SCARCE.

REFERENCES: NUC.

**3733. 3rd edition, 1890:** *Traité Élémentaire* | De | *Minéralogie* | Par | M.F. Pisani | [short rule] | Précédé D'Une Préface | Par M. Des Cloizeaux | De L'Institut | [short rule] | Troisième Édition, Revue Et Augmentée | Avec 212 figures dans le texte | Paris | G. Masson, Éditeur | Libraire De L'Académie De Médecine | 120, Boulevard Saint-Germain, en face de l'École de Médecine | [short rule] | 1890.

8°: viii, 446 p., 212 illus. VERY SCARCE.

REFERENCES: NUC.

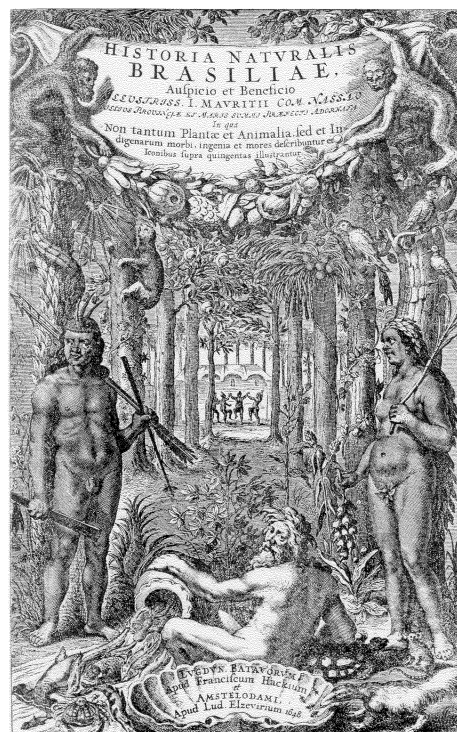
**PISO (Pies), Willem.** (BORN: Leiden, The Netherlands, 1611; DIED: Amsterdam, The Netherlands, November 1678) *Dutch physician.*

Piso was educated at the Universities of Leiden and Caen, from which he received his M.D. in 1633. He then established a medical practice in Amsterdam. In 1637 Piso was sent by the Dutch West Indian Company to be the physician to Johan Maurits of Nassau, the governor of the colony in Brasil, and physician to the colony. During his extended stay, in conjunction with Markgraf, he wrote the *Historia Naturalis Brasiliae*, a compendium of tropical medicine, pharmacology (including the introduction of a Brazilian root into European use), and natural history. He returned to the Netherlands in 1644. By 1648 Piso had settled in Amsterdam, and there he established a medical practice.

REFERENCES: Aa, *Biographisch Woordenboek*, 1852-78. • BAB: 535, 268-281. • DSB: 10, ?? . • *Dutch Medical Biography*: 1535 [by G.A. Lindeboom]. • Jöcher, *Gelehrten-Lexikon*, 1750-51. • Kobus, *Biographisch Woordenboek*, 1886. • NNBW. • Van Anel, M.A., "Willem Piso, een baanbreker de tropische geneeskunde," *Bijdragen tot de geschiedenis der geneeskunde*, 14 (1924), 239-54. • Van Anel, M.A., see the introduction to "Capita nonnulla de ventris fluxibus, de dysenteria, de lue indica, de ipecacuanha," in: *Opuscula selecta neerlandicorum de arte medica*, 14 (Amsterdam 1937), xii-xxxviii. [This introduction, which has an English translation on facing pages, is said to be the best study of Piso.] • WBI.

### 3734. — Latin, 1648.

[Title contained within an engraved design: top compartment] *Historia Natvralis* | *Brasiliae*, | *Auspicio et Beneficio* | *Jllvstrjss. I. Mavritii Com. Nassav* | *Jlljvs Provncjae Et Marjs Svmmj Praefectj Adornata:* | *In qua* | *Non tantum Plantae et Animalia, sed et In-* | *digenarum morbi,* *ingenia et mores describuntur et* | *Iconibus supra*



HISTORIA NATVRLIS BRASILIAE, 1648

quingentas illustrantur. | [Bottom compartment:] *Lvgdvn. Batavorvm,* | *Apud Franciscum Hackium,* | *et | Amstelodami, | Apud Lud. Elzevierum. 1648.*

2°: \*6 A-P4 Q2; (†)4 A-Z4 Aa-Oo4 Pp2; 222ℓ.; [12], 122, [2] p.; [8], 293, [7] p., including engraved and printed titles. Profusely illustrated with woodcut illustrations of plants, animals, insects, fish and genre scenes. PAGE SIZE: 380 x 250 mm.

VERY SCARCE. Co-authored by Georg Markgraf [see note below] and edited by JOANNIS DE LAET. The *Historia Natvralis Brasiliae* is a pioneer work on tropical medicine and the first illustrated natural history of Brazil. It remained until the publication of the great expeditions of the nineteenth century, the only illustrated work describing Brazilian natural history. Typical of the time, it is a sumptuous publication from the famous Dutch publisher Elzevir, and it is one of the beautiful Dutch works on Braziliana.

The work is divided into two parts: the first by Piso (pp. 1-122) provides an important account of Brazilian medicine, on page 35 giving the first account of separating yaws from syphilis. The second portion (pp. 1-293) is devoted to Markgraf's natural history studies and studies of astronomy performed at an observatory built by Nassau in his palace in Recife. It is divided into eight books: (1-3) on plants, (4), fish, (5) birds, (6) quadrupeds, (7) insects and (8) a valuable description of the North-eastern region of Brazil and its inhabitants. This last section was written by Laet and is a valuable ethnographic study. Although only

brief incidental references are made to the minerals of the country, this is the first mineralogical description of this geologically rich land.

**Second edition, 1658:** [Title within an engraved design: top compartment] Gulielmi Pisonis | Medjci Amstelaedamensis | De | Indiae Utriusque | Re Naturali Et Medica | Ljbrj Qvatvordecim, | Quorum contenta pagina sequens | exhibet. | [Bottom compartment:] Amstelaedami, | Apud Ludovicum et Danielelem | Elzevirios. | A° CLO IO C LVIII. 2°: [24], [1]-248, 247-327, [7], [1]-40, [1]-226, [2] p. [Cf. Hunt Botanical Catalog, 2, 302-3, no. 280; Sabin, no. 63029].

**Modern translations and reprints:** [1942] *História Natural Do Brasil. Tradução De Mons. Dr. José Procopio De Magalhães, Edição Do Museu Paulista Comemorativa Do Cincoente. São Paulo, Imprensa Oficial do Estado, 1942. 2°: [423] p., incl. illus., facsim., tables. Contains: Jorge Marcgrave, de Liebstad (1610-1644) Escorço biográfico, por Afonso de E. Taunay included in "Comentarios" (civ p. at end) and bibliographies. "Prefacio" signed: Afonso de E. Taunay. [AzU Science Oversize QH117.M3165]. • [1948] *História Natural Do Brasil Ilustrada. Tradução Do Alexandre Correia, Seguida Do Texto Original, Da Biografia Do Autor E De Comentários Sôb. [São Paulo] Companhia Editora Nacional, 1948. 2°: xx, 434 p., illus. [AzU Science Oversize: QH117.P69]. • [1957] *História Natural E Médica Da Índia Ocidental, Em Cinco Livros por Guilherme Piso. Traduzida E Anotada Por Mário Lôbo Leal. Revista Por Felisberto Carneiro E Eduar. Rio de Janeiro, I. N. L., 1957. 4°: xix, 685 p., illus., facsim. Contains: "Bibliografia de Piso": p. xii-xiii. "Bibliografia sôbre Piso": p. xiii-xvi. Series: *Coleção de Obras Raras*, no. 5. [AzU Science QH117.P692].***

**Georg Markgraf (Marcgraf, Marcgrave).** (BORN: Liebstadt, Meissen, Germany, 20 September 1610; DIED: San Paolo de Luanda, Angola, Africa, August 1644) *German naturalist & traveler.* Markgraf matriculated at Leiden University in 1636. Between 1638 and 1644, he took part in a military and exploratory expedition to the Dutch settlements in Brazil under the leadership of Count Maurice of Nassau. During this expedition he explored the natural history of the region thoroughly, including zoology, botany, astronomy, cartography and meteorology. He assembled collections of plants and animals. The dried plants are still preserved in the Botanical Museum, Copenhagen. He also made extensive notes and drawings of the things he encountered which were used by Jan de Laet to illustrate the *Historiæ Natvralis Brasiliæ* (1648). On his return from Brazil he stopped to explore Africa, but succumbed to a tropical fever there.

REFERENCES: BL. • BMC. • Borba, *Bibliographia Brasiliana*, 1983: 2, 675-6. • Garrison & Morton: 5303. • Hunt Botanical Catalog: no. 244. • Lichtenstein, H., "Die Werke von Marcgrave und Piso über die Naturgeschichte Brasiliens, erläutert aus den wiederaufgefundenen Originalzeichnungen," *Abhandlung der Preussischen Akademie des Wissenschaften, Physicalische Abhandlung*, for 1814-5 (1818), p. 201-222 & for 1817 (1819), p. 155-78 & for 1820-1 (1823), p. 237-54, 267-88 & for 1826 (1829), p. 49-65. • LKG: XIV 890 & 891a. • Nissen (BBI): no. 1533. • Palau, *Manual*, 1948-77: no. 227441. • Pritzel, *Thesaurus Literaturæ Botanicae*, 1871-3: no. 7157. • Sabin, *Dictionary*, 1868-1936: no. 63028 ["There are also copies on large paper."]. • Whitehead, P.J.P., "The Original Drawings for the *Historia Naturalis Brasiliæ* of Piso and Marcgrave (1648)," *Journal of the Society for the Bibliography of Natural History*, 7 (1976), 409-22. • Wood, *Literature of Vertebrate Zoology*, 1931: p. 520. (Markgraf (Marcgraf, Marcgrave)) ADB: 20, 337-8. • DSB: 9, 122-3. • Engel, *Dutch Zoological Cabinets*, 1986: 172-3. • Gudger, E.W., "Georg Marcgrave, the first student of American natural history," *Popular Science Monthly*, 1912, 250-74. • Whitehead, P.J.P., "The biography of Georg Marcgraf and his brother Christian, translated by James Petiver," *Journal of the Society for the Bibliography of Natu-*

*ral History*, 9 (1979), 301-14.

## PISONIS, Guilielmus.

See: **Piso (pies), Willem.**

**PLATNER, Johann Zacharias.** (BORN: 1694; DIED: 1748) *German physician.*

REFERENCES: ADB. • DBA: I 963, 442-445. • Jöcher, *Gelehrten-Lexikon*, 1750-51. • Jöcher, *Gelehrten-Lexikon*, Supplement. • Poggendorff: 2, col. 468. • WBI.

De Generatione Metallorum Consensu Amplissimi Philosophorum Ordinis Disputabunt Praeses M. Johannes Zacharias Platner, Et Respondens David Gottlob Dietze, Stollberg. Misn. ... (Lipsiae, 1717).

See: **Dietze, David Gottlob.**

**PLATT, Hugh, Sir.** (BORN: 1552; DIED: c1611) *English agricultural writer.*

Platt matriculated at St. John's College, Cambridge in 1568 and received his degree in 1571-2. He turned his attention to natural science, practical invention and agriculture. He wrote several works, mostly regarding agriculture, that went through numerous editions.

REFERENCES: Allibone, *Dictionary of English Literature*, 1859-71. • BBA: I 881, 215-223. • DNB: 45, 407 [by S. Lee]. • Ferguson, *Bibliotheca Chemica*, 1906: 2, 206-7. • Watt, *Bibliotheca Britannica*, 1824. • WBI.

## 3735. — English, 1653.

[Contained within an ornate border:] The | Jevvel House | Of | Art and Nature: | Containing | Divers Rare and Profitable Inven- | tions, together with sundry new Experiments in | the Art of Husbandry. | With | Diver Chimal Conclusions concerning the Art | of Distillation, and the rare practises and uses thereof. | Faithfully and familiarly set down, according to | the Authours own experience. | [rule] | By Sir Hugh Plat of Lincolns Inne, Knight. | [rule] | Wherunto is added, A rare and excellent Discourse | of Minerals, Stones, Gums, and Rosins; with the vertues | and use thereof. By D.B. Gent. | [rule] | London: Printed by Bernard Alsop, and are to be | sold at his house in Grubstreet, near the Upper Pump. 1653.

4°: A-Z<sup>4</sup> Aa-Gg<sup>4</sup> (B2 signed C2); 120 l eaves; [8], 232 p. Numerous errors in pagination. Ornamental initials and headpieces. The *Discourse on Stones* begins on fflr.

SCARCE. Platt's first book and shows his extensive knowledge of practical agriculture matters. Thetreatise includes a compendium of 150 recipes, experiments and inventions. It was one of Platt's most popular works having been previously published in 1594 (first edition). It is, however, Arnold de Boate's [see note below] *Discourse on Minerals, Stones, Gums and Rosins* (pp. 217-232) that is of interest to the mineralogist.

**Arnold de Boate.** (BORN: Gorcum, The Netherlands, 1600?; DIED: Paris, France?, 1653?) *Dutch physician, hebraist & writer.* Brother of GERARD BOATE. Boate received his M.D. from Leyden. He emigrated to Ireland and opened a medical practice in Dublin. He became phsician-general of English forces in Ireland. He studied Hebrew rabbinical writings. Eventually, he relocated to Paris.

## PLATTES

REFERENCES: Hoover Collection: no. 644. • Hunt Botanical Catalog: no. 261. • Wing: P-2390. (Boate) *Biografisch Woordenboek Nederland*. • DNB.

**PLATTES, Gabriel.** (BORN: 1600?; DIED: London, England, 1655?) *English scientist*.

Practically nothing is known of Plattes. He is thought to be of Dutch extraction, and he was an author on agricultural subjects. His notable work on the subject is *A Discovery of Infinite Treasure* (London, 1639). He was an original thinker and thorough scientist, who insisted on practical experimentation to confirm hypothesis. Though described as the "original genius in husbandry," he was neglected in his lifetime. Despite his poverty, he refused to beg for money and eventually died of starvation. His body was found in the street.

REFERENCES: Allibone, *Dictionary of English Literature*, 1859-71. • BBA: I 881, 255-256. • DNB: 45, 410. • Watt, *Bibliotheca Britannica*, 1824. • WBI.

**3736. — English, 1639** [First edition].

A Discovery of Sub- | terraneall Treasure, viz. | Of all manner of Mines and Mineralls, | from the Gold to the Coale; with plaine | Directions and Rules for the finding of | tehm in all Kingdomes and Countries. | And also the Art of Melting, Refining, and Assaying of | tehm is plainly declared, so that every ordinary man, | that is indifferently capacious, may with small | charge presently try the value of such | Oares as shall be found either by | rule or by accident. | Whereunto is added a reall Experiment whereby every ignorant | man may presently try whether any peece of Gold that | shal come to his hands be true or counterfeit, with- | out defacing or altering the forme thereof, | and more certainly than any Gold- | smith or Refiner could for- | merly discern. | Also a perfect way to try what colour any Berry, Leafe, Flower, | Stalke, Root, Fruit, Seed, Barke, or Wood will give: | with a perfect way to make Colours that they | shall not stayne nor fade like ordinary | Colours. | Very necessary for every one to know, whether he be Tra- | vailer by Land or Sea, or in what Country, Do- | minion, or plantation soever hee shall | Inhabite. | [rule] | Imprinted at London by I. Okes, for Iasper Emery, and | ar to be sold at his shop at the signe of the Eagle and | Child in Pauls Church-yard next Watlin-street. | M DC XXX IX.

4°:  $\pi^2$  B-I<sup>4</sup> K<sup>2</sup> (\$3 signed); 36 $\ell$ .; [12], [1]-60 p. Decorative woodcut initials. On verso of title page is printed between decorative borders: "Imprimatur: Tho. Vvykes. February 19. 1638."

CONTENTS: [2 pgs], Title page, verso "Imprimatur Tho. Wykes."—dated 19 February 1638.; [2 pgs], Blanks.; [3 pgs], "To his Worthy Friendmaster William Englebert Esquire."; [5 pgs], "To the Reader."; 1-60, Text.

VERY SCARCE. This is the first practical guide in English on identifying economic minerals and metallurgy. It is an interesting treatise, containing a wealth of factual information, illustrated by the

author's own experiments. Mention is made of the gold and silver mines in New England, Virginia and the Bermudas, as well as other parts of America. Besides providing details of the procedures of assaying, the author gives a recipe by which he claims to have produced pure gold at a cost, however, greater than the value obtained. An entire chapter discusses all kinds of vegetable dyes. A second edition of this work appeared in the same year 1639 under the title: *A Discovery of Infinite Treasure*.

Facsimile reprint, 1980: Published by Ilkley, Yorkshire, Reprinted for the Institution of Mining and Metallurgy, London by Scholar Press, 1980. [10], 60 p.

REFERENCES: BL: [727.c.15.]. • BMC: 4, 1583. • Cole, *Chemical Literature*, 1988: no. 1042. • *Freilich Sale Catalog*: no. 434. • NUC: 461, 298-9 [NP 0414356]. • Wellcome Catalog (Books): 1, no. 5100. • Wing: P-2410.

**3737. 2nd edition, 1653:** A discovery of subterranean treasure, viz. of all manner of mines and minerals, from the gold to the coal, with plain directions and rules for the finding of them in all kingdoms and countries : and also, the art of melting, refining, and assaying of them is plainly declared ... : also a perfect way to try what colour any berry, leaf, flower, stalk, root, fruit, seed, bark, or wood will give, with a perfect way to make colours that they shall not stain, nor fade like ordinary colours. London, Printed for J.E. and are to be sold by Humphrey Moseley ..., 1653.

4°: [10], 1-60 p.

VERY SCARCE. Dedication signed: Gabriel Plattes.

REFERENCES: NUC: 461, 298-9 [NP 0414358]. • Roller & Goodman, *Catalogue*, 1976: 2, 309. • Wing: P-2410.

**3738. 3rd edition, 1679:** A Discovery of | Subterranean Treasure: | (viz.) | Of all manner of Mines and Minerals, | from the Gold to the Coal; with plain Directions and Rules | for the finding of them in all Kingdoms and Countries. | And Also | The Art of Melting, Refining and Assaying of them is plain- | ly Declared, so that every ordinary man, that is indifferently capa- | cios, may with small charge presently try the value of such Oars as | shall be found either by Rule or by Accident. | Whereunto is added | A real Experiment whereby every ignorant man may pre- | sently try whether any piece of Gold that shall come to his hands be | True or Counterfeit, | without defacing or altering the form thereof, | and more certainly than any Goldsmith or Refiner could formerly | Discern. | Also A | Perfect way to try what colour any Berry, Leaf, Flower, | Stalk, Root, Fruit, Seed, Bark, or Wood will give: With a | perfect way to make Colours that they shall not stain nor fade like | ordinary Colours. | Very necessary for every one to know, whether he be Traveller by Land | or Sea, or in what Country, Dominion, or Plantation soever he shall | Inhabit. | [rule] | By Mr. Gabriel Plattes. | [rule] | London. | Printed for Peter Parker at the Leg and Star in Cornhill, | over against the Royal Exchange, 1679.

4°:  $\pi^2$  A-C<sup>4</sup>; 14 $\ell$ .; [4], [1]-24 p. VERY SCARCE.

CONTENTS: [1 pg], Title page.; [2 pgs], "To the Reader."; [1 pg], Blank.; 1-24, Text.

REFERENCES: NUC: 461, 298-9 [NP 0414359]. • Wing: P-2411.

**3739. — English, 1715.**

A Discovery of Subterranean Treasure, Viz. all manner of mines & minerals, from the gold to the coal. London, für die Buchhändler, o. J. (c1715).

8°: [2], 22 p.

VERY RARE. Spätere Ausgabe, erstmals 1639 erschienen. - BM, Compact ed. XX, 486. - Vgl. Hoover 225. Ferguson I, 170 (beide innerhalb einer Sammelausgabe von 1738 bzw. 1740). - "

It is of importance as the first English work on mining and metallurgy " (Sotheran, Suppl. II, 14195). - Papierbedingt gebräunt, braunfl. und mit Randschäden. Unbeschnitten.

A Discovery of Subterranean Treasure. (London, 1740).

See: Barba, Alvaro Alonso.

**3740. — English, 1784** [American issue].

A discovery of subterranean treasure containing useful explorations, concerning all manner of mines and minerals, from the gold to the coal; with plain directions and rules for the finding of them in all kingdoms and countries. : In which the art of melting, refining, and assaying of them is plainly declared ... Whereunto is added a real experiment whereby every ignorant man may presently try whether any piece of gold that shall come to his hands be true or counterfeit ... Also a perfect way to try what colour any berry, leaf, flower, stalk, root, fruit, seed, bark, or wood will give: with a perfect way to make colours that they shall not stain nor fade like ordinary colours. : Very necessary for every one to know, whether he be a traveller by land or by sea, in what country, dominion, or plantation soever he shall either sojourn or inhabit. By Mr. Gabriel Plattes. Philadelphia, Printed and sold by Robert Bell, in Third Street., M,DCC,LXXXIV. [1784].

8°: A<sup>4</sup> B-E<sup>8</sup>; 20ℓ.; [1]-37, [3] p.

RARE. Early American imprints. First series, no. 18732.

REFERENCES: Evans, *American Bibliography*: no. 18732. • NUC: 461, 298-9 [NP 0414367]. • Sabin, *Dictionary*, 1868-1936: no. 63360. • *USGS Library Catalog*.

**3741. — English, 1792** [American issue].

A discovery of subterranean treasure, viz. all manner of mines & minerals, from the gold to the coal, with plain directions and rules for finding them in all kingdoms and countries. : Also the art of melting, refining and assaying them made plain and easy ... : To which is added a real experiment, to try whether a piece of gold be true or counterfeit ... : Also a sure way to try what colour any berry, leaf, flower, stalk, root, fruit, seed, bark or wood will give: together with directions for making colours that shall not stain nor fade. : Very necessary for everyone to know, whether he be a traveller by land or sea, or in what country, dominion, or plantation soever he may inhabit. / By Mr. Gabriel Plattes. Philadelphia, : [s.n.], Printed M,DCC,XCII.

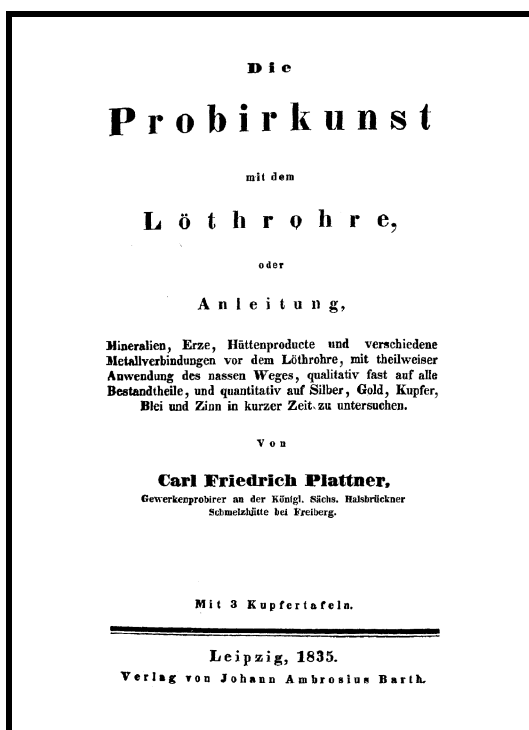
4°: A-C<sup>4</sup>; 12ℓ.; [1]-24 p.

RARE. Early American imprints. First series, no. 31174.

REFERENCES: Evans, *American Bibliography*: no. 31174. • NUC: 461, 298-9 [NP 0414368]. • Sabin, *Dictionary*, 1868-



PLATTNER



DIE PROBIERKUNST MIT DER LÖTHROTHER, 1835

1936: no. 63360.

**PLATTNER, Karl Friedrich.** (BORN: Klein Waltersdorf, Saxony, Germany, 2 January 1800; DIED: Freiberg, Germany, 22 January 1858) *German metallurgist*.

REFERENCES: ADB: 26, 267. • Barr, *Index to Biographical Fragments*, 1973: 206. • DBA: I 964, 94; II 1013, 4-8; II 1013, 4-8. • Drugulin, *Sechstausend Portraits*, 1863: no. 4283. • DSB: 11, 33-4. • *Encyclopaedia Britannica*, 11th edition. • Poggendorff: 2, col. 469. • Sarjeant, *Geologists*, 1980: 3, ????. • Schaedler, *Biographisch Handwörterbuch*, 1891: 94. • WBI.



**3742. — German, 1835** [First edition].

Die | Probierkunst | mit dem | Löthrothe, | oder | Anleitung, | Mineralien, Erze, Hüttenproducte und verschiedene | Metallverbindungen vor dem Löthrohre, mit theilweiser | Anwendung des nassen Weges, qualitativ fast auf alle | Bestandtheile, und quantitativ auf Silber, Gold, Kupfer, | Blei und Zinn in kurzer Zeit zu untersuchen. | Von | Carl Friedrich Plattner, | Gewerkenprobierer an der Königl. Sächs. Halsbrückner | Schmelzhütte bei Freiberg. | Mit 3 Kupfertafeln. | [double rule] | Leipzig, 1835. | Verlag von Johann Ambrosius Barth.

8°:  $\pi^9$  1-228 233; 188 $\ell$ .; [i]-xviii, [1]-358 p., 3 folding plates (blow-pipes), 2 folding tables (listing reactions before the blow-pipe). PAGE SIZE: 208 x 122 mm.

CONTENTS: [i-ii], Title page, verso blank.; [iii], Dedication to Siegmund August Wolfgang Freiherrn von Herder.; [iv], Blank.; [v]-xii, "Vorwort."—dated 1 December 1834.; [xiii]-xviii, "Inhalt.;" [1], Sectional title page, "Erste Abtheilung. | [rule] | Beschreibung | der zu Löthrohrproben | erforderlichen Gegenstände.;" [2], Blank.; [3]-60, Text.; [61], Sectional title page, "Zweite Abtheilung. | [rule] | Qualitative Löthrohrproben.;" [62], Blank.; [63]-247, Text.; [248], Blank.; [249], Sectional title page, "Dritte Abtheilung. | [rule] | Quantitative Metallproben | vor dem Löthrohre.;" [250], Blank.; [251]-345, Text.; [346]-350, "Anhang. | [rule] | Beschreibung eines zweckmässigen Blase-Appa- | rates für quantitative Löthrohrproben.;" [351]-353, "Verbesserungen und Nachträge.;" [354], Blank.; [355]-358, "Register."

VERY SCARCE. This is the first appearance of an important and fundamental book that is a culmination of all the knowledge in the field of blowpipe analysis applied to minerals. In unprecedented detail Plattner describes his experiments and tests in extraordinary and complete detail, arranging the whole by element. Thus he created a masterwork that is generally regarded as the best work authored on the subject. It was updated regularly going through eight editions until 1928 and was translated into other languages. In later editions it was revised and enlarged by Theodore Richter and Friedrich Kolbeck.

REFERENCES: Burchard, *History of Blowpipe Analysis*, 1984. • NUC.

**3743. 2nd edition, 1847:** Die | Probirkunst mit dem Löthrohre | oder | Anleitung | Mineralien, Erze, Hüttenproducte und verschiedene | Metallverbindungen mit Hilfe des Löthrohrs qualitativ | auf ihre sämtlichen Bestandtheile und quantitativ auf | Silver, Gold, Kupfer, Blei, Zinn, Nickel, Kobalt | und Eisen zu untersuchen | von | Carl Friedrich Plattner, | [...2 lines of titles and memberships...] | [rule] | Zweite ganz umgearbeitete und vermehrte Auflage | mit 77 in den Text eingedruckten Holzschnitten. | [rule] | Leipzig, 1847. | Verlag von Johann Ambrosius Barth.

8°:  $\pi^5$  \*5 1-438 421; 337 $\ell$ .; [i]-xx, [1]-652, [2] p. PAGE SIZE: 220 x 130 mm. VERY SCARCE.

CONTENTS: [i-ii], Title page, verso blank.; [iii]-vii, "Vorwort zur ersten Auflage."—signed C.F. Plattner, 1 December 1834.; [viii]-x, "Vorwort zur zweiten Auflage."—signed C.F. Plattner, November 1846.; [xi]-xx, "Inhalt.;" [1], Sectional title page, "Erste Abtheilung. | [rule] | Beschreibung | der zu Löthrohrproben | erforderlichen Gegenstände.;" [2], Blank.; [3]-82, Text.; [83], Sectional

title page, "Zweite Abtheilung. | [rule] | Qualitative Löthrohrproben.;" [84], Blank.; [85]-486, Text.; [487], Sectional title page, "Dritte Abtheilung. | [rule] | Quantitative Metallproben | vor dem Löthrohre.;" [488], Blank.; [489]-631, Text.; [632]-636, "Anhang.;" [637]-652, "Alphabetisches Register.;" [1 pg], "Verbesserungen und Nachträge.;" [1 pg], "Druck der Ph. Reclam'schen Officin in Leipzig."

REFERENCES: NUC.

**3744. 3rd edition, 1853:** Die | Probirkunst | Mit Dem Löthrohre | Oder | Anleitung: | Mineralien, Erze, Hüttenprodukte und verschiedenen Metallverbindungen | mit Hülfe des Lötrohrs qualitativ auf ihre sämtlichen Bestandtheile | und quantitativ auf Silber, Gold, Kupfer, Blei, Wismuth, Zinn, | Kobalt, Nickel und Eisen zu untersuchen. | Von | Carl Friedrich Plattner, | [...4 lines of titles and memberships...] | Dritte, | grosstentheils umgearbeitete und verbesserte Auflage. | Mit 78 in den Text eingedruckten Holzschnitten. | [ornate rule] | Leipzig, | Verlag Von Johann Ambrosius Barth. | 1853.

8°:  $\pi^8$  \*4 1-458; 372 $\ell$ .; [i]-xxii, [2], [1]-716, [4] p., 78 woodcut illus. PAGE SIZE: 228 x 134 mm. VERY SCARCE.

CONTENTS: [i-ii], Title page, verso blank.; [iii]-vii, "Vorwort zur ersten Auflage."—signed C.F. Plattner, 1 December 1834.; [viii]-x, "Vorwort zur zweiten Auflage."—signed C.F. Plattner, November 1846.; [xi]-xii, "Vorwort zur dritten Auflage."—signed C.F. Plattner, 25 February 1853.; [xiii]-xxii, "Inhalt.;" [1 pg], "Die | Probirkunst Mit Dem Löthrohre.;" [1 pg], Blank.; [1]-693, Text.; [694]-709, "Anhang.;" [710]-714, "Aequivalente oder Atongewichte.;" [715]-716, "Verbesserungen und Nachträge.;" [4 pgs], Publisher's list.

REFERENCES: NUC.

**3745. 4th edition, 1865:** Carl Friedrich Plattner's | Probirkunst | mit dem | Löthrohre | oder | vollständige Anleitung | zu | qualitativen und quantitativen Löthrohr- | Untersuchungen. | Vierte Auflage, | neu bearbeitet und vermehrt | von | Theodor Richter, | [...2 lines of titles and memberships...] | Mit 86 in den Text eingedruckten Holzschnitten | und einer Steindrucktafel. | [ornate rule] | Leipzig, 1865. | Verlag von Johann Ambrosius Barth.

8°: xvi, 679, [2] p., 86 illus. VERY SCARCE.

REFERENCES: NUC.

**3746. 5th edition, 1877:** Die Probirkunst mit dem Lothrohre ... Ed. 5. (1877-78).

8°: SCARCE.

REFERENCES: NUC.

**3747. 6th edition, 1897:** Probirkunst mit dem lothrohre ... Leipzig, J. A. Barth, 1897.

488 p. SCARCE.

REFERENCES: NUC.

**3748. 7th edition, 1907:** Carl Friedrich Plattners | Probirkunst Mit Dem Löthrohre. | Eine Vollständige Anleitung | Zu Qualitativen Und Quantitativen | Lötrohr- | Untersuchungen. | Bearbeitet | Von | Dr. Friedrich Kolbeck, | [...2 lines of titles and memberships...] | Mit 72 Abbildungen. | Siebente Auflage. | [ornament] | Leipzig, | Verlag Von Johann Ambrosius Barth. | 1907.

8°:  $\pi^8$  1-328 332; 282 $\ell$ .; [i]-xvi, [1]-515, [1] p., 72 illus. PAGE SIZE: 220 x 144 mm. SCARCE.

CONTENTS: [i-ii], Half title page, "Probierkunst Mit Dem Löthrohre.;" verso blank.; [iii-iv], Title page, verso shows a list of the previous editions.; [v], "Vorwort zur siebente Auflage.;" [vi], Blank.; [vii]-xvi, "Inhalt.;" [1]-501, Text.; [502]-515, Index to minerals metioned in the text.; [1 pg], Advertisements.

REFERENCES: NUC.

### English Editions

**3749. English transl., 1845:** The | Use Of The Blowpipe, | In The Examination | Of | Minerals, Ores, Furnace-Products, | And Other Metallic Combinations. | By | Professor Charles Frederick Plattner, | Assay-Master

at the Royal Freyberg Smelting-Works. | Translated From The German, | With Notes, | By James Sheridan Muspratt, Ph.D., | Of the University College, and Giessen Laboratories. | With A Preface By Professor Liebig. | Illustrated By Numerous Diagrams. | [2 lines of quotation, signed Horace.] | London: | Taylor And Walton, Upper Gower Street, | Edinburgh: Maclachlan, Stewart, & Co. | Dublin: Fannin & Co. | [short rule] | 1845.

4°:  $\pi^4$  a<sup>4</sup> b<sup>2</sup> A-Zz<sup>4</sup> Aaa<sup>2</sup>; ??ℓ.; [i]xvii, [3], [1]-364 p., illus., tables. PAGE SIZE: 228 x 142 mm.

CONTENTS: [i-ii], Title page, verso "Mitchell, Heaton, And Mitchell, Printers, Liverpool."; [iii], "Preface | By Professor Liebig"—signed Justus Liebig, 23 March 1844.; [iv], Blank.; [v], Dedication to P.J. Murphy, dated August 1844.; [vi], Blank.; [vii]-viii, "Translator's Preface."—dated December 1844.; [ix]-xvii, "Contents."; [1 pg], Blank.; [1 pg], "Section I."; [1 pg], Blank.; [1]-348, Text.; [349], "Appendix."; [350], Blank.; [351]-358, Text of appendix.; [359]-364, "Index To The Minerals."

VERY SCARCE. Translated by Sheridan Muspratt [1821-1871] from *Die Probierkunst mit der Löthrothe* (1st ed., Leipzig, 1835), together with a preface by the famous German chemist Justus Liebig. Muspratt added notes to some of the tests in view of developments since the original German edition had appeared.

REFERENCES: NUC.

**3750. English transl., 1854:** The use of the blowpipe in the qualitative and quantitative examination of minerals, ores, furnace products, and other metallic combinations. By Professor Plattner and Dr. Sheridan Muspratt. Illustrated by numerous diagrams. 3d ed., rev. and further enl. London, J. Churchill, 1854.

xvii, 405, [1] p. illus., tables. VERY SCARCE.

#### American issues

**3751. American issue, 1st edition, 1871:** Plattner's Manual of Qualitative and Quantitative Analysis with the Blowpipe. New York, 1871.

8°: VERY SCARCE.

REFERENCES: NUC.

**3752. American issue, 2nd edition, 1873:** Plattner's Manual | Of | Qualitative And Quantitative | Analysis With The Blowpipe. | From The Last German Edition, | Revised And Enlarged | By | Professor Th. Richter, | Of The Royal Saxon Mining Academy: | Translated By | Henry B. Cornwall, A.M., E.M., | Assistant In The Columbia College School Of Mines, New York. | Assisted By | John H. Caswell, A.M. | [rule] | With Eighty-eight Woodcuts and One Lithographic Plate. | [rule] | Second Edition—Revised. | New York: | D. Van Nostrand, Publisher, | 23 Murray St. And 27 Warren St. | 1873.

8°:  $\pi^{19}$  26 3-338 34<sup>15</sup>; ??ℓ.; [i]-xvii, [1], [1]-548, [10] p., one folding colored frontispiece. PAGE SIZE: 226 x 142 mm. SCARCE.

CONTENTS: [i-ii], Title page, verso "Entered according to Act of Congress, in the year 1871..."; [iii]-iv, "Translator's Preface."; [v], "Preface | To The | Fourth German Edition."—dated May 1865.; [vi], Blank.; vii-xi, "Contents."; [xii], Blank.; [xiii]-xv, "Introduction."; [xvi]-xvii, "Scheme Of Blowpipe Analysis | By | Prof. T. Egleston."; [1 pg], Blank.; [1], "Section I. | [rule] | Description Of Apparatus | And | Reagents."; [2], Blank.; [3]-522, Text.; [523]-534, "Index Of Minerals."; [535]-536, "Index Of Metallurgical Products."; [537]-548, "General Index."; [1 pg], "Table Of Atomic Weights."; [9 pgs], "Scientific Books | Published By | D. Van Nostrand."

REFERENCES: NUC.

**3753. American issue, 4th edition, 1880:** Plattner's manual of qualitative and quantitative analysis with the blowpipe. From the last German ed., rev. and enl., by Professor Th. Richter. Tr. by Henry B. Cornwall, assisted by John H. Caswell, A.M. With eighty-eight woodcuts and one lithographic plate. New York, D. Van Nostrand, 1880.

8°: xvii, [1], [3]-548, [2] p., folding frontispiece, illus. SCARCE.

REFERENCES: NUC.

**3754. American issue, 1902:** Plattner's manual of qualitative and quantitative analysis with the blowpipe; tr. by Henry B. Cornwall; assisted by John H. Caswell; with eighty-seven woodcuts. 8th ed., rev. after the 6th German ed., by Friedrich Kolbeck. New York, D. Van Nostrand, 1902.

xvii, 463 p. illus.

VERY SCARCE. Cornwall, Henry Bedinger, 1844-1917, tr. // Caswell, John H., joint tr. // Kolbeck, Friedrich, ed.

**3755. — German, 1849.**

Beiträge zur Erweiterung der Probirkunst ... Freiberg, 1849.

8°: VERY SCARCE.



PLINIUS SECUNDUS

**PLINIUS SECUNDUS (Pliny), Gaius.** (BORN: Novum Comum (now Como), Italy, c23 A.D.; DIED: Near Pompeii, Italy, 24 August 79 A.D.) *Italian naturalist, writer & encyclopedist.*

One of the foremost authorities on science in ancient Europe, Pliny was educated in Rome, and for some years he followed a military career. After serving in the army, he studied jurisprudence, but retired c57 A.D. to devote himself to scholarly study and writing. Pliny wrote many historical and scientific works, including *De Laculatione Equestri*, *Studiosus*, *Dubius Sermo*, a 20-book history of the Germanic Wars, and 31 books of Roman history covering 41 to 71 A.D. Pliny's great encyclopedia of nature and art in 37 books, the *Historia Naturalis*, is the only one of his works that has been preserved. The first ten books were published in 77 A.D. and the remainder after his death, edited probably by his nephew, Pliny the Younger. In 79 A.D., eager to examine more closely the great eruption of Mount Vesuvius that overwhelmed and destroyed Herculaneum and Pompeii, he sailed across the bay of Naples to Stabiae, where he was suffocated by the vapors from the eruption.

REFERENCES: *Biographical Dictionary of the History of Technology*: 562 [by L.R. Day]. • Drugulin, *Sechstausend Portraits*, 1863: nos. 4293-3. • DSB: 11, 38-40 [by D.E. Eichholz]. • *Encyclopaedia Britannica*, 11th edition: 21, 841-4. • Healy, J.F., "Pliny the Elder and ancient mineralogy," *Interdisciplinary Science Reviews*, 6 (1981), no. 2, 166-80, illus. • *ISIS*, 1913-65: 2, 334-5. • Lambrecht & Quenstedt, *Catalogus*, 1938: 341. • Poggendorff: 2, col. 473. • Sarjeant,

## PLINIUS SECUNDUS: LATIN EDITIONS

*Geologists*, 1980: 3, 1901-2, Suppl. 1 (1985), 2, 703-4 & Suppl. 2 (1996), 2, 990-1. • Sarton, *Introduction*, 1928-52: 1, 249-51. • Schaedler, *Biographisch Handwörterbuch*, 1891: 95. • *World Who's Who in Science*: 1355.



NATURALIS HISTORIA, 1469

### Latin editions

#### 3756. — Latin, 1469 [First edition].

Naturalis Historiae ... Venice, Johannes de Spira (before Sept. 18), 1469.

2°: [1<sup>o</sup> 2<sup>8</sup> 3-9<sup>10</sup> 10<sup>12</sup> 11-18<sup>10</sup> 19-20<sup>8</sup> 21-25<sup>10</sup> 26-28<sup>10</sup> 29<sup>12</sup> 30-32<sup>10</sup> 33<sup>8</sup> 34-36<sup>10</sup>] (unsigned; 36/10 blank).; 356ℓ.; no pagination, foliation or signiatures. Roman type, capitals and paragraph marks printed in red and blue, headings in red. Signatures in manuscript are recorded in the British Library copy as follows: \*8 a-g<sup>10</sup> h<sup>12</sup> i-q<sup>10</sup> r-s<sup>8</sup> t-z<sup>10</sup> aa-cc<sup>10</sup> dd<sup>12</sup> ee-gg<sup>10</sup> hh<sup>8</sup> ii-ll<sup>10</sup>. PAGE SIZE: 410 x 296 mm.

CONTENTS: 1/1r (=1r), "[P2]LINIVS secundus nouo- comensis equestris militis industria functus: procu- rationes quoque splendidas atque continuas summa integritate administravit..."; 1/1r (=1r), line 12: "[L17]IBROS NATVRALIS HISTORIAE | nouitiū camenis..."; 3/1r (=19r), "[M]VNDVM ET HOC QVOD NOMINE | alio Cēlum appellari libuit: cuius circūflexu tegunt | cuncta: numen esse credi par est..."; 36/9v (=355v), COLOPHON: "Quem modo tam rarum cupiens uix lector haber&: | Quiq; etiam fractus pene legendus eram: | Restituit Venetis me nuper Spira Ioannes: | Exscriptiq; libros ēre notante meos. | Fessa manus quondam moneo: Calamusq; quiescat. | Nanq; labor studio cessit: & ingenio. | .M. CCCC. LXVIII."; 36/10 (=356), Blank.

EDITIO PRINCEPS. Very rare. Printed by Joannes de Spira [see note below], the whole edition of this book is thought to be limited to one hundred copies. This is the first printed book dealing with natural history, being an encyclopaedia of the ancient world covering many subjects. It was revered for over fifteen centuries and became one of the most influential books ever written.

Gaius Plinius Secundus (commonly called Pliny) was a very learned man of his times, and certainly one of its greatest readers. A most industrious compiler, he states in the preface to his *Historia* that the work contains over 20,000 facts culled from some 200 books and over 100 selected authors. Actually there are 473 authors mentioned: 146 Roman and 327 Greek. Thus, while he uses Aristotle as his principle authority, he accumulated information from sources as he uncovered them, and but for his diligence, a vast amount of material preserved in the *Historia* would have been lost to the world.

The *Historia Naturalis* is the only work of the 132 attributed to Pliny to have survived to modern times. It was held in high esteem throughout its existence as manuscripts and for many centuries after its first appearance in print. It is one of the most precious monuments to have traveled from ancient times, providing proof of astonishing amount of erudition on the part of the old Romans.

Pliny's greatest fault was his uncritical nature as a compiler of facts. Therefore, included in his text is an incredible amount of data, often of improbable character, that if it had been omitted would have made a better text. But a careful reading of the this work will reveal a vast amount of natural history data common to us now and presumed to be of modern discovery in actuality was recorded first by Pliny. Also, respect must be paid to the frequent use of reference citation splattered throughout the tomes.

The first ten books of Pliny's great work were probably shaped about 77 A.D. During the next two years, the remainder of the text was being revised and edited, and was left unfinished at the time of Pliny's tragic death during the eruption of Vesuvius in 79 A.D. It is probable that some material was added when the author's nephew and literary executor, Pliny the Younger [see note below], completed the great work and made it available to the world. Pliny's early death may account to some extent for the somewhat inchoate condition of the *Historia*.

The *Historiae Naturalis* is a vast, comprehensive work divided into 37 books (or sections) that may be considered the first encyclopedia of knowledge. Scientific subjects include astronomy, chemistry, geology, mineralogy, botany, husbandry, zoology, geography, anthropology, ethnology, and much on the history and practice of medicine and art. It was a common source from which early writers of science drew examples, and it presents in the final four books the ancient Roman view of minerals and geological processes.

In his preface to the Natural History, Pliny claims rightly that the enterprise is a novel one. There had been other encyclopedias—for example, of the liberal arts—but, as he says (preface, sec. 14), no Greek by himself had compiled an encyclopedia of the whole of nature; and no Roman had done so by himself or with others. The novelty of the task was one of its attractions. Among others were Pliny's inexhaustible curiosity, and his conviction that he must be of service. "It is godlike," he writes (bk. 2, sec. 18), "for man to help man"—his anxiety to save the science of past ages from the forgetful indifference of the present, and his desire to make his reputation secure. The result was aptly described by Pliny the Younger as "a diffuse and learned work, no less rich in variety than nature itself" (III.5.6).

The preface addressed to Titus is followed by a novelty, in that book 1 consists of an index of topics and authorities for each of the succeeding thirty-six books. The general plan of the treatise itself is conventional, proceeding from the world to the earth, and from the earth to its products—animal, vegetable, and mineral. But this simple outline is blurred. Book 2 duly surveys the universe, ending with the earth conceived as its center and with terrestrial phenomena. It is followed by books 3-6 (geography), 7 (man), 8-11 (other animals), 12-19 (botany), and 20-27 (materia medica from botanical sources). These last eight books are complemented by 28-32 (materia medica from animal sources); books 33-37 concern metals and stones, including their uses in medicine, architecture, and especially art.

Yet merely as a compilation of facts the Natural History is unique. Comprehensiveness is all: "Things must be recorded because they have been recorded," remarks Pliny (bk 2, sec. 85); and criticism will not deter him. In book 37 (secs. 30-6), through his own knowledge and observation Pliny gives an almost entirely correct account of the nature and provenance of amber, but not before he has related all the myths and speculations about it that have come to his notice. Still, this uncritical and all-inclusive method has its advantages. A nonsensical reference to Indian amber may be an indication that shellac was known Pliny would have felt that knowledge preserved even in this way justified the means. Although such diffuseness interfered with the practical aims of the work, Pliny's influence in the succeeding centuries was nevertheless great and abridgments were made, especially of his medical and geographical material.

**Pliny the Younger.** (BORN: Novum Comum (now Como), Italy, 61 or 62 A.D.; DIED: Rome, Italy?, 113 A.D.) Italian bureaucrat & writer. Pliny (full Latin name, Gaius Plinius Caecilius Secundus) was a nephew of Pliny the Elder, by whom he was adopted and whose name he took in 79. His name was originally Publius Caecilius Secundus. He studied in Rome under the famous teacher and rhetorician Quintilian, and he was distinguished both for his literary accomplishments and for his oratorical ability. He held numerous official appointments. As a young man he served as military tribune in Syria, where he frequented the schools of the Stoics. Pliny was quaestor

Caesaris at the age of 25, then praetor, and then consul in 100, in which year he wrote the Panegyricus, a eulogy of the emperor Trajan. About 111 he was appointed governor of the province of Bithynia, where he remained about two years. Whether his death occurred in Bithynia or soon after in Rome is not known. He was married three times, but died childless.

Besides completing his uncle's *Historia Naturalis*, Pliny himself collected and published nine books of *Epistulae* (Letters), and a tenth book, containing his official correspondence as governor of Bithynia with the emperor Trajan, was published after his death. To these letters Pliny owes his place in literature as one of the masters of the epistolary style. The private letters, most of which were undoubtedly written or revised with a view to publication, give a valuable picture of the life of the writer and of his friends and contemporaries. Pliny himself appears in the letters as a genial philanthropist, devoted to literary pursuits and to improving his estates by architectural adornment. The most interesting letters include two to his friend the historian Publius Cornelius Tacitus on the eruption of Vesuvius; one describing in detail his villa at Laurentum; one relating the story of a haunted house in Athens; and one, to the Roman emperor Trajan, concerning the policy against the Christians.

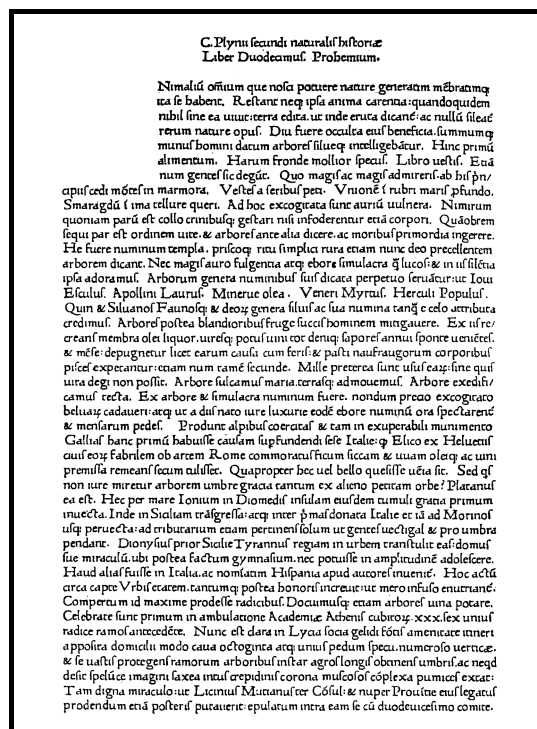
**Joannes de Spira.** (BORN: ; DIED: Venice, Italy, 1470) German printer. Spira was a native of Speyer (capital of the Bavarian palatinate), which is located on the Rhine. Early in 1460-61 Johann appears in Mainz as a "goldsmith," and it is known that he learned the art of printing in Gutenberg's shop there. The decline of the city after the sack of 1462 probably caused him to take his wife, children and brother Wendelin and relocate to Venice. In 1469, together with his brother, he printed the first book in Venice, Cicero's *Epistolae ad Familiares*. After successfully publishing several works, on September 18, 1469, Spira was granted by the Signoria a patent to allow him to be the only printer in Venice for a period of five years. His monopoly was cut short in 1470, however, when Spira unexpectedly died. Afterwards, Wendelin assumed control of the business and carried it on successfully until 1477. During the period 1470 to 1477 the firm issued over seventy great works of Italian and Roman classics, as well as religious publications.

REFERENCES: BL. • BMC XV: 5, 153 [IC 19506]. • Goff: P-786. • Hain, *Repertorium Bibliographicum*, 1826-38: HC 13087. • Healy, J.F., "Pliny the Elder and ancient mineralogy," *Interdisciplinary Science Reviews*, 6 (1981), no. 2, 166-80, illus. • Horblit: no. 84. • IGI. • Klebs, *Incunabula Scientifica*, 1938: no. 786.1. • LKG: III 3. • NUC: 461, 671-90 [NP 0424130]. • Osler, *Incunabula Medica*, 1923: no. 3. • PPM: *Printing and the Mind of Man*: no. 5. • Proctor, *Index*, 1898-1906: no. 4018. • Sarton, *Introduction*, 1928-52: 1, 249-51. • Sarton, *Scientific Incunabula*, 1938. • Stillwell, *Awakening Interest in Science*, 1970. (Pliny the Younger) *Encyclopaedia Britannica*, 11th edition. • *Nouvelle Biographie Générale* (Hoefer). (Spira) BMC XV: 3, ix & 152. • Brown, *Venetian Printing Press*, London, 1891. • *Catholic Encyclopedia*. • Denis, M., *Michaelis Denisii ... Suffragium pro Johanne de Spira primo Venetiarum typographo ...* Viennae, Typis Joan. Thomae nob. de Trattner, MDCCXCIV, 46 p. [Argues that Spira, rather than Nicolas Jenson, was the first printer in Venice]. • Hartwig, et al., *Festschrift zum 500. Jahrbuch der Geburtstage von Johann Gutenberg*, Mainz, 1900: 342.

**3757. 2nd edition, 1470:** *Historia Naturalis ...* Rome, Conradus Sweynheym and Arnoldus Pannartz, [not after 30 August] 1470.

2°: [110 212 3-610 7-118 12-1710 18-208 21-2710 28-298 30-3710 38-398 4010] (unsigned; 1/1 blank and 40/9-10 blank); 378ℓ.; no pagination, foliation or signatures. Type 115R, 46 lines, capital spaces for 7-line initials and for headings. Signatures in manuscript are recorded in the British Library copy as follows: \*10 2\*12 a-d10 e-i8 k-p10

# PLINIUS SECUNDUS: LATIN EDITIONS



NATURALIS HISTORIA, 1470

q-s<sup>8</sup> t-z<sup>10</sup> A-B<sup>10</sup> C-D<sup>8</sup> E-M<sup>10</sup> N-O<sup>8</sup> P<sup>10</sup>. PAGE SIZE: 393 x 274 mm.

CONTENTS: 1/1, Blank; 1/2r (=2r), Editor's dedicatory letter to Pope Paul II with text reading: "Iohannis Andree Episcopi Alerien ad pontificem | summum Paulum .II. Venetum. Epistola."; 1/2v (=2v), Letters from Pliny the Younger to Marcus and Tacitus (comprising an account of his uncle's life and the circumstances of his death), and citations from Suetonius, Tertullian, and Eusebius of Caesarea with wording at line 40: "... Rome Pontificatus tui felicissimi Anno Sexto. | C. Plinius. Marco suo Salutem."; 1/4v (=4v), Dedication by Pliny the Elder to Domitian with wording: "C. Plinius Secundus Nouo-comensis. Domitiano suo salutem. | [L7]Ibros Naturalis Historie nouitium Camenis Quiritiu tuoru opus natu apud | me proxima foetura "; 1/5v (=5v), Tables and indices, including lists of sources (=Book 1.); 3/1r (=23r), Book 2.; 9/1r, Book 7.; 12/1r, Book 9.; 14/1r, Book 11.; 16/1r, Book 13.; 21/1r, Book 18.; 31/1r, Book 28.; 40/8r (=376r), COLOPHON: "Hereneus Lugdunensis Epus: Item Iustinus ex philosopho Martyr. Item cu diuo | Hieronymo Eusebius Cesarisis: serio posteritatem adiurarunt: ut eorum descripturi | opera conferrent diligetex exemplaria. & sollerti studio emendarent. Idem ego tum | in ceteris libris omnibus tum maxime in Plinio ut fiat: uehementer obsecro. obtestor. | atq; adiuro: ne ad priora meda & tenebras inextricabiles tanti sudoris opus relabat. | Instauratum aliquantulu sub Romano Potifice Maximo Paulo .II. Veneto. Atq; | impressum Rome in domoPetri & Francisci de Maximis iuxta campu flore preside- | tibus Magistris Corado Suueynheym & Arnoldo Panartz. Anno dominici natalis. | M. CCCC. LXX. Pontificatus eius felicissimi ac placidissimi Anno .VI."; 40/9-10 (=377-378), Blank.

RARE. Edited by Joannes Andreae de Buxiis (Bussi) [1417-1475], Bishop of Aleria, who records in his prefatory letter that Theodorus Gaza assisted him in editing. This edition was printed by Conrad Sweynheim and Arnold

Pannartz [see notes below]. It is the earliest book they printed in 1470 as is shown by its position in a later list of the printer's works and it being the last of their books where the headings were left to the rubricator instead of being printed (BMC).

Although the colophon indicates this edition to have been printed in 300 copies, this edition appears to be rarer than both the preceding and succeeding editions. It appeared a few months after the first edition printed by Johannes de Spira in Venice in 1469 and the preface implies that the editors were unaware of the existence of the earlier edition, which was printed from a different and more corrupt manuscript. The colophon to the 1469 de Spira edition states the press run to be 100 copies. While the well-known 1472 Jensen edition was printed in over 1,000 copies, a large number for the time, but this second edition of 1470 is considerably harder to locate than either of those other books.

**Conrad Sweynheim.** (BORN: Schwanheim, Frankfurt, Germany, ; DIED: Rome, Italy, 1477) *German printer.* and **Arnold Pannartz** (BORN: Cologne, Germany?; DIED: Rome, Italy, ca. 1476) German printers who learned the art in Gutenberg's shop in Mainz. However, a religious war between two archbishops led to the expulsion from the city in 1462 of the tradesmen, including printers, who supported the loser. This inadvertently created a diaspora of printers throughout Europe and hastened the spread of the art. Sweynheim and Pannartz were among the expatriates and the first to establish printing in Italy. At the invitation of Cardinal John Turrecremata they set up shop in 1464 in the Abbey of Subiaco; however, they moved to Rome late in 1467 and continued their partnership until 1472. Between 1464 and 1472 they issued over 12,000 copies of thirty-seven works, these being chiefly the classics and religious tomes. Being an engraver, Sweynheim was probably the die-cutter, the type-founder and the typesetter, while Pannartz was in charge of the actual printing and the business connected with it.

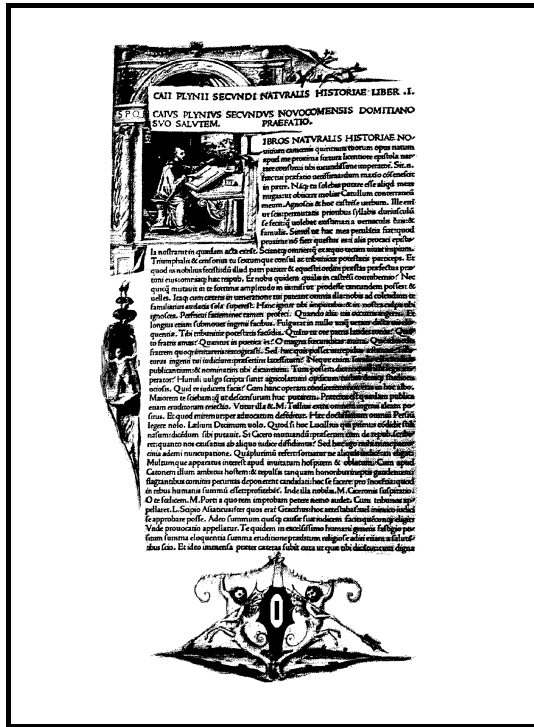
After their partnership was dissolved, Sweynheim worked until his death as an engraver of the maps of the *Cosmography* of Ptolemy. He was the first to apply copper engraving techniques to the production of maps, and twenty-seven of the beautifully executed plates are his work in the 1478 edition of the *Cosmography*.

REFERENCES: BMC XV: 4, 9 [IC 19506]. • CIBN: P-458. • *Freilich Sale Catalog*: no. 435. • Goff: P-787. • Hain, *Repertorium Bibliographicum*, 1826-38: HC \*13088. • IGI: no. 7879. • Klebs, *Incunabula Scientifica*, 1938: no. 786.2. • NUC: 461, 671-90 [NP 0424133]. • Proctor, *Index*, 1898-1906: no. 3306. (Sweynheim) *Catholic Encyclopaedia*. • Davies, M., "Juan de Carvajal and Early Printing: The 42 Line Bible and the Sweynheim and Pannartz Aquinas," *Library 6th series*, 18 (September 1996), 193-215. • Hall, E., *Sweynheim & Pannartz and the origins of printing in Italy: German technology and Italian humanism in Renaissance Rome*, McMinnville, OR, Bird & Bull Press for Phillip J. Pirages, 1991. • Hartwig, et al., *Festschrift zum 500 jahr. Geburtstage von Johann Gutenberg*, Mainz, 1900. • Lowry, M., *Nicholas Jensen and the rise of Venetian publishing in Renaissance Europe*, Oxford [England]; Cambridge, Mass., B. Blackwell, 1991. • Lowry, M., *Venetian Printing: Nicolas Jensen and the Rise of the Roman Letterforms*, 1989.

**3758. 3rd edition, 1472:** *Historia Naturalis ...* [Venice, Nicolas Jensen, 1472].

2°: [112 28 3-810 912 10-1510 168, 17-2710 286 29-3010 31-358 3610 3712] (unsigned; 1/1 and 37/11-12 blank); 358ℓ; no pagination, foliation or signatures. 50 lines, roman letter, capital spaces with guide letters. Signatures in manuscript are recorded in the British Library copy as follows: \*8 a-f10 g12 h-n10 o8, p-bb10 cc6 dd-ee10 ff-kk8 ll10 mm12. PAGE SIZE: 415 x 277 mm.

CONTENTS: 1/1, Blank.; 1/2r (=2r), "CAIVS PLYNIVS MARCO SVO SALVTEM. | ..."; 1/4r (=4r), "CAII PLYNII SECVNDI NATVRALIS HISTORIAE



HISTORIA NATURALIS, 1472 (LEAVE 1/4r)

LIBER .I. | CAIVS PLYNIVS SECVNDVS NOVO-  
COMENSIS DOMITIANO | SVO SALVTEM. PRAEFA-  
TIO. | [L12]IBROS NATVRALIS HISTORIAE NO-  
...; 37/8r (=355r), COLOPHON: "CAII PLYNII SECVNDI  
NATVRALIS HISTORIAE LIBRI TRI- | CESIMISEP-  
TIMI ET VLTIMI FINIS IMPRESSI VENETIIS | PER  
NICOLAVM IENSON GALLICVM .M.CCCC.LXXII. |  
NICOLAO TRONO INCLYTO VENETIARVM DVCE.  
| Iohannisandreae episcopi alerensis ad pontificem |  
summum Paulum secundum uenetum epistola."; 37/9r  
(=356r), line 7: "... Romae pōtificatus tui fōlēcissimi  
anno sexto. | Hereneus Iugdunensis episcopus ..."; 37/9r  
(=356r), line 13, END: "...Instauratū aliqūatū sub romano  
pōtifice maximo Paulo secūdo ueneto."

VERY SCARCE. Printed by Nicolas Jenson [see note below] and edited by Joannes Andreae de Buxiis (Bussi) [1417–1475], Bishop of Aleria.

**Nicolas Jenson.** (BORN: c1420; DIED: Venice, Italy, 1480) *French printer.* About 1458 Jenson was sent by King Charles VII of France to Germany to learn the new art of printing. However, after his patron died, instead of returning to France, he moved to Venice. There he established a successful printing business, which is renowned even today for the beautiful typography of the works produced. Jenson's Roman types, based upon the Humanist calligraphy of the time and place, were extremely successful. They mark a departure from the dense calligraphic style then dominant in Europe, and are, in fact, the direct source of the letters now in general use. For his work, Jenson was honored in 1475 by Pope Sixtus IV with a Court Palatine.

REFERENCES: BL. • BMC XV: 5, 172 [IC 19661]. • Essling, *Livres à Figures Venitiens*, 1907-14: 3. • Goff: P-788. • *Gutenberg-Jahrbuch*: 1962, p. 389. • Hain, *Repertorium Bibliographicum*, 1826-38: HC 13089. • Klebs, *Incunabula Scientifica*, 1938: no. 786.3. • LKG: III 3. • Oates, *Cambridge 15th Century Books*, 1954: no. 1632. • Osler, *Incunabula*

*Medica*, 1923: no. 18. • Proctor, *Index*, 1898-1906: no. 4087. (Jenson) *Catholic Encyclopaedia*. • Lowry, M., *Nicholas Jenson and the rise of Venetian publishing in Renaissance Europe*, Oxford [England]; Cambridge, Mass., B. Blackwell, 1991. • Lowry, M., *Venetian Printing: Nicolas Jenson and the Rise of the Roman Letterforms*, 1989.

**3759. 4th edition, 1473:** *Historia Naturalis* ... Rome, Conradus Sweynheym and Arnoldus Pannartz, 7 May 1473.

2°: [1-7<sup>10</sup> 8-9<sup>8</sup> 10-39<sup>10</sup> 40-41<sup>8</sup>] (unsigned; 1/1 and 41/8 blank); 402ℓ.; no pagination, foliation or signatures. Two columns in book 1, type 115R, 46 lines, capital spaces. Signatures in manuscript are recorded in the British Library copy as follows: a-g<sup>10</sup> h-i<sup>8</sup> k-z<sup>10</sup> A-Q<sup>10</sup> R-S<sup>8</sup>. PAGE SIZE: 386 x 263 mm.

CONTENTS: 1/1, Blank.; 1/2r (=2r), "C. PLYNII SECVNDI NATVRALIS HISTORIAE LIBER | PRIMVS DE HIS QVAE SINGVLIS LIBRIS CONTI | NENTVR INCIPIT FOELICITER. | C. Plynus Secundus Nouocomensis Vespasiano suo salutem."; 1/3v (=3v), "CAPITVLA SECVNDI LI | BRI DE MVNDO ELEME | NTIS ET SYDERIBVS."; 41/7v (=401v), COLOPHON: "Aspicias illustris lector quicunq; libellos | Si cupis artificum nomina nosse: lege. | ... Cōradus suueynheym: Arnoldos pānartzq; magistri Rome impresserunt talia multa simul. | M. CCCC. LXXIII. | die Veneris .vii. Maii."

RARE. This appears to be a different recension from that of the 1470 edition (BMC).

REFERENCES: BL. • BMC XV: 4, 17 [IC 17212]. • Goff: P-789. • Hain, *Repertorium Bibliographicum*, 1826-38: 13090. • IGI. • Klebs, *Incunabula Scientifica*, 1938: no. 786.4. • NUC: 461, 671-90 [NP 0424142]. • Osler, *Incunabula Medica*, 1923: no. 31. • Proctor, *Index*, 1898-1906: no. 3335.

### 3760. — Latin, 1476.

*Historia Naturalis* ... Parma, Stephanus Corallus, 1476.

2°: [1<sup>12</sup> 2<sup>8</sup> 3-8<sup>10</sup> 9<sup>12</sup> 10-15<sup>10</sup> 16<sup>8</sup> 17-23<sup>10</sup> 24-27<sup>10</sup> 28<sup>6</sup> 29-30<sup>10</sup> 31-35<sup>8</sup> 36<sup>10</sup> 37<sup>8</sup> 38<sup>4</sup>] (unsigned; 1/1 and 38/4 blank); 358ℓ.; no pagination, foliation or signatures. Type 111Rb, 50 lines, capital spaces, catchwords. Signatures in manuscript are recorded in the British Library copy as follows: a<sup>12</sup> b<sup>8</sup> c-h<sup>10</sup> i<sup>12</sup> k-p<sup>10</sup> q<sup>8</sup> r-z<sup>10</sup> A-D<sup>10</sup> E<sup>6</sup> F-G<sup>10</sup> H-M<sup>8</sup> N<sup>10</sup> O<sup>8</sup> P<sup>4</sup>. PAGE SIZE: 419 x 277 mm.

CONTENTS: 1/1, Blank.; 1/2r, "CAIVS PLYNIVS MARCO SVO SALVTEM."; 37/8v (=354v), COLOPHON: "CAII PLYNII SECVNDI NATVRALIS HISTORIAE LIBRI TRICESI- | MISEPTIMI ET VLTIMI FINIS IMPRESSI PARMAE DVCTV ET | IMPENSIS | MEI STEPHANI CORALLI LVGDVNENSIS. M.CCCC. | LXXVI REGNANTE INVICTISSIMO PRINCIPE GALEACEO MA- | RIA MEDIOLANI DVCE QVINTO. | Ad uenerabilē & ornatissimū uirū Nicolāū Rauacaldū | canonicū pmensē. Philippi Broaldi Bononiēsis epistola."; 38/3r (=357r), END: "... Vale Amantissime mi Nicolae: & Philippū tuū dilige."

RARE. Edited by Filippo Beroaldo (The Elder) [see note below] and printed by Stephanus Corallus. Reprinted from the edition of Jenson (Venice, 1472), with the same contents to 350v. After that the remainder is compressed so far as to allow more room for the letter of Beroaldus, which takes the place of that of Joannes Andreae found in the Jenson edition. (BMC).

**Filippo Beroaldo, called the Elder.** (BORN: Bologna, Italy, 1453; DIED: Bologna, Italy, 1505) *Italian scholar.* A writer of high reputation, Beroaldo was for many years professor of belle-arts at the University of Bologna. He published many commentaries on the Greek and Latin classics, and several short works.

## PLINIUS SECUNDUS: LATIN EDITIONS

REFERENCES: BMC XV: 7, 939 [IC 30223]. • Goff: P-790. • Hain, *Repertorium Bibliographicum*, 1826-38: HC 13091. • IGI. • Klebs, *Incunabula Scientifica*, 1938: no. 786.5. • NUC: 461, 671-90 [NP 0424143]. • Osler, *Incunabula Medica*, 1923: no. 115. • Proctor, *Index*, 1898-1906: no. 6842. (Beroaldo, called the Elder) ABI: I 146, 396-430; II 56, 25-36. • Benvenuti, *Dizionario degli Italiani all'Estero*, 1890. • Eckstein, *Nomenclator philologorum*, 1871. • Eitner, *Quellenlexikon*, 1959: ??, ??. • Frati, *Dizionario Bio-bibliografico Italiani*, 1933. • Imperatori, *Dizionario di Italiani all'Estero*, 1956. • Jöcher, *Gelehrten-Lexikon*, 1750-51. • Mazzetti, *Repertorio di Tutti i Professori*, 1848. • Mazzuchelli, *Gli Scrittori d'Italia*, 1753-63. • *Nouvelle Biographie Générale* (Hoefler). • Parenti, *Aggiunte al Dizionario*, 1952-60. • Pini, G., *Vita P. Beroaldi Senioris*, 1505. • Thomas, *Dictionary of Biography*, 1884: 340. • WBI.

### 3761. — Latin, 1479.

Historia Naturalis ... Treviso, Michael Manzolus, 25 August 1479 [but not before 13 October 1479].

2°: a<sup>14</sup> b<sup>8</sup> c-h<sup>10</sup> i<sup>12</sup> k-p<sup>10</sup> q<sup>8</sup> r-y<sup>10</sup> z<sup>10</sup> &<sup>10</sup> ρ<sup>10</sup> R<sup>10</sup> A<sup>10</sup> B<sup>6</sup> C-D<sup>10</sup> E-I<sup>8</sup> K<sup>10</sup> L<sup>8</sup> M<sup>4</sup> (a1 and M4 blank); 360ℓ.; no pagination or foliation. Type 83R, 50 lines and headline, capital spaces with guide-letters and headlines. PAGE SIZE: 292 x 209 mm.

CONTENTS: a1, Blank.; a2r (=2r), "HIERONYMI BONONII TARVISANI AD IOANNEM BOMBENVUM | AMICORVM OPTIMVMPRO. C. PLINIO SECVNDO APOLOGIA."; a3v (=3v), "EIVSDEM HIERONYMI BONONII CARMEN EX | ILLVSTRIVM OPERV-MARGVMMENTIS."; a4r (=4r), "CAIVS PLYNIVS MARCO SVO SALVTEM."; L8v (=356v), COLOPHON: "CAII PLYNII SECVNDI NATVRALIS HISTORIAE LIBRI TRICES- | MISEPTIMI ET VLTIMI FINIS IMPRESSI TERVISII DVCTV ET IM | PENS MICHAELIS MANZOLI PARMENSIS M. CCCC. LXXIX. RE | GNANTE SERENISSIMO VENETIARVM DVCE IOANNE MON- | CENIGHO OCTAVO KALENDAS SEPTEMBRIS."; L8v-M3r (=356v-359r), Letter of Philippus Beroaldus to Nicolaus Ravacaldus, ending with the text: "... Vale Amā | tissime mi Nicolae: & Philippum tuum dilige. | AMEN."; M4 (=360), Blank.

VERY SCARCE. Edited by Filippo Beroaldo (The Elder). "Reprinted with the same page contents and quiring, but with two additional leaves of matter by Bononius, from the edition of Corallus, Parma, 1476." (BMC)

REFERENCES: BMC XV: 6, 888 [IB 28354]. • Goff: P-791. • Hain, *Repertorium Bibliographicum*, 1826-38: HC 13092\*. • IGI. • Klebs, *Incunabula Scientifica*, 1938: no. 786.6. • NUC: 461, 671-90 [NP 0424145]. • Osler, *Incunabula Medica*, 1923: no. 179. • Proctor, *Index*, 1898-1906: no. 6472.

### 3762. — Latin, 1480.

Historia Naturalis ... Parma, Andreas Portilla, 13 February 1480.

2°: a<sup>10</sup> b<sup>6</sup> c-u<sup>8</sup> x-y<sup>6</sup> z<sup>8</sup> &<sup>4</sup> A-L<sup>8</sup> M<sup>6</sup> N<sup>4</sup> (a1 and N4 blank); 286ℓ.; no pagination or foliation. Type 99R, 58 lines, capital spaces with guide-letters, catchwords. PAGE SIZE: 418 x 285 mm.

CONTENTS: a1, Blank.; a2r (=2r), "CAIVS PLYNIVS MARCO SVO SALVTEM."; a4r (=4r), "CAII PLYNII SECVNDI NATVRALIS HISTORIAE LIBER PRIMVS. | CAIVS PLYNIVS SECVNDVS NOVOCOMENSIS. T. VESPASIANO | SVO SALVTEM. PRAEFATIO | [L]IBROS NATVRALIS HISTORIAE NO | uitium ..."; N2r (=284r), COLOPHON: "Caii Plynii Secundi Naturalis Hystoriae Liber Tricesimus Septimus & Vltimus. Finit.

| Parmæ Impressus Opera Et Impensa Andreæ Portiliæ Anno Natiuitatis Domini. M. | .CCCC.LXXX. idibus februarii. Regnatne Illustrissimo Pricipe Ioanne Galeazeo Maria | Duce Mediolai | Andreas prodesse uolens portillia multis | Gratum opus impresit plinon ære suo. | ..."; N2v (=284v), "CORECTIONES."; N3v (=285v), END: "... ut ista priuatim uolumen non epistolam requirant."; N4 (=286), Blank.

RARE. Edited by Filippo Beroaldo and printed by Andreas Portilia [see note below]. Portilia appears to have printed this book by subscription, at any rate in part, since on the 5 November, 1479, he signed at Reggio documents binding him to supply during the following February copies of the Pliny at one ducat apiece to more that a dozen persons in the city (V. Ferrari, *Lo stampatore Andrea Portilia a Reggio nel 1479* (1924)) (BMC).

The corrections on N2v-N3v are those of Beroaldus contained in his letter to Ravacaldus (first printed in Corallus' 1476 edition), the personal matter at the beginning and end of the letter being here omitted (BMC).

Andreas Portilia. (BORN: ; DIED: ) *German printer*. Italian printer. Portilia's first book is dated from Parma on the 23 September 1472. By March, 1473 he had a setup a press in Bologna. He does not reappear in Parma until the spring of 1478, but then continued to print there until April 1482.

REFERENCES: BMC XV: 7, 936 [IC 30262]. • Goff: P-792. • Hain, *Repertorium Bibliographicum*, 1826-38: no. 13093. • IGI. • Klebs, *Incunabula Scientifica*, 1938: no. 786.7. • NUC: 461, 671-90 [NP 0424146]. • Proctor, *Index*, 1898-1906: no. 6849. (Portilia) ABI: I 807, 159. • BMC XV. • Janelli, *Dizionario Biografico dei Parmigiani*, 1877. • WBI.

### 3763. — Latin, 1481.

Historia Naturalis ... Parma, Andreas Portilla, 8 July 1481.

2°: a<sup>8</sup> b<sup>6</sup> c-e<sup>8</sup> f<sup>6</sup> g-h<sup>8</sup> i<sup>6</sup> K<sup>6</sup> l<sup>6</sup> m-y<sup>8</sup> z<sup>6</sup> &<sup>4</sup> A-F<sup>8</sup> G<sup>6</sup> aa-dd<sup>8</sup> ee<sup>6</sup> (a1 and ee6 blank); 268ℓ.; no pagination or foliation. Type 99R, 58 lines, capital spaces with a few guide-letters. PAGE SIZE: 402 x 279 mm.

CONTENTS: a1, Blank.; a2r (=2r), "CAIVS PLYNIVS MARCO SVO SALVTEM."; a3, "CAII PLYNII SECVNDI NATVRALIS HISTORIAE LIBER PRIMVS. | CAIVS PLYNIVS SECVNDVS NOVOCOMENSIS. T. VESPASIANO SVO | SALVTEM. | PRAEFATIO. | [L]IBROS NATVRALIS HISTORIAE NO | uitium ..."; ee2v (=264v), COLOPHON: "Caii Plynii Secundi Naturalis hystoriae Liber tricesimus septimus & ultimus Finit. | Parmæ impressus opera & impēsa Andreæ Portiliæ Anno Natiuitatis Domini. M. | CCCC.LXXXI. Octauo idus iulii. Regnate Illustrissimo principe Ioanne Galeazo | Maria Duce Mediolani. | Andreas prodesse uolēs portillia multia | ... | Quæ facit uti uiuant omnia scripta: Vale."; ee3r (=265r), "CORRECTIONES."; ee5r (=267r), "C. PLYNII SECVNDI REG-ISTRVM | ... | (col. 3) corectiones."

RARE. Reprinted from the edition of 1480 (BMC).

REFERENCES: BMC XV: 7, 937 [IC 30266]. • Goff: P-793. • Hain, *Repertorium Bibliographicum*, 1826-38: HC 13094\*. • IGI. • Klebs, *Incunabula Scientifica*, 1938: no. 786.8. • NUC: 461, 671-90 [NP 0424147]. • Oates, *Cambridge 15th Century Books*, 1954: no. 2573. • Proctor, *Index*, 1898-1906: no. 6851.

3764. 9th edition, 1483: Historia naturalis ... Venice, Raynaldus de Novimagio, 6 June 1483.

2°: aa<sup>8</sup> bb<sup>10</sup> a-f<sup>10</sup> s-z<sup>10</sup> &<sup>8</sup> ρ<sup>8</sup> R<sup>8</sup> A-H<sup>8</sup> I<sup>10</sup> (aa1 blank); 356ℓ.; no pagination or foliation. Type 90R, 49



lines, capital space, mostly with guide-letters. PAGE SIZE: 314 x 212 mm. (wide-margined).

CONTENTS: aa2r (=2r), "CAIVS PLINIVS MARCO SVO SALVTEM. | [P]Ergratum est mihi q̄ tam diligenter libros auunculi mei lectitas: ..."; aa3v (=3v), "CAII PLYNII SECVNDI NATVRALIS HYSTORIAE LIBER PRIMVS. | CAIVS PLYNYVS SECVNDVS ..."; aa5r (=5r), "SVMMATIM HAEC INSNT LIBRIS SINGVLIS."; bb3r (=19r), "C. PLINII SECVNDI NATVRALIS HISTORIAE LIBER SECVNDVS INCIPIT."; I7v (=353v), COLOPHON: "Caii Plynii Secundi Naturalis hystoriae Liber trigesimus septimus & ultimus Finit. | Venetiis impressus opa & impēsa Rainald o' Nouimagio Alamani Anno Natiuitatis | Domini. M. CCCC. LXXXIII. Die Sexta Mensis Iunii. Regnante Illustrissimo prin | cipe Ioanni Mocenigo."; I8r (=354r), "CORRECTIONES."; I9r (=355r), "register."; I10 (=356), Blank.

VERY SCARCE. Edited by Filippo Beroaldo and printed by Rainaldus, de Novimagio, [fl. 1476–1496].

REFERENCES: BMC XV: 5, 257 [IB 20678]. • Goff: P-794. • Hain, *Repertorium Bibliographicum*, 1826-38: HC 13095\*. • IGI: no. 7886. • Klebs, *Incunabula Scientifica*, 1938: no. 786.9. • NUC: 461, 671-90 [NP 0424148]. • Oates, *Cambridge 15th Century Books*, 1954: no. 1783. • Polain, *Catalogue*, 1932: no. 3200. • Proctor, *Index*, 1898-1906: no. 4445.

### 3765. — Latin, 1487.

Historia Naturalis ... Venice, Marinus Saracenus, 14 May 1487.

2°: aa<sup>8</sup> bb<sup>6</sup> a-z<sup>8</sup> &<sup>8</sup> A-G<sup>8</sup> H<sup>10</sup> (aa1 and H10, blank); 272ℓ.; no pagination or foliation. Type 1:82R, 57 lines, capital spaces. PAGE SIZE: 320 x 217 mm.

CONTENTS: aa1, Blank.; aa2r (=2r), "CAIVS PLINIVS MARCO SVO SALVTEM."; aa3r (=3r), "CAII PLINII SECVNDI NATVRALIS HYSTORIAE LIBER PRIMVS."; H7v (=269v), COLOPHON: "Venetiis impressu per Magistrum Marinum Saracenum. Anno. M. CCCCLXXXVII. Die/ xiiii. | Mensis Maii. Regnante Illustrissimo Principe Augustino Barbarico."; H8r (=270r), "CORRECTIONES."; H9v (=271v), "REGISTRVM ... | (col. 4) uanitatem."; H10 (=272), Blank.

VERY SCARCE. Edited by Filippo Beroaldo (The Elder) and printed by Marinus Saracenus [??-??].

REFERENCES: BL: [IB 23224]. • BMC XV: 5, 413-4 [IB 23224]. • *Freilich Sale Catalog*: no. 436. • Goff: P-795. • Hain, *Repertorium Bibliographicum*, 1826-38: HC 13096\*. • Klebs, *Incunabula Scientifica*, 1938: no. 786.10. • NUC: 461, 671-90 [NP 0424149]. • Oates, *Cambridge 15th Century Books*, 1954: no. 2020. • Polain, *Catalogue*, 1932: no. 3201. • Proctor, *Index*, 1898-1906: no. 5157.

### 3766. — Latin, 1491.

Naturalis hystoriae Liber trigesimus septimus impensa Thomæ de blauis de Alexadria. Anno Natiuitatis Domini M.CCCC.LXXXXI. Die. III. Mensis Nouembris. Regnate Augustino Barbadico inclito Venetorum Principe.

2°: aa<sup>8</sup> bb<sup>8</sup> a-d<sup>8</sup> e<sup>8</sup> f-z<sup>8</sup> &<sup>8</sup> γ<sup>8</sup> ρ<sup>8</sup> A-I<sup>8</sup> II<sup>6</sup> (aa1, blank); 308ℓ.; no pagination or foliation. Type 90 (84)R., 54 lines, capital spaces with guide letters. PAGE SIZE: 292 x 205 mm.

CONTENTS: aa1, Blank.; aa2r (=2r), "CAIVS PLINIVS MARCO SVO SALVTEM. | pErgratū ē mihi ??? tā diligēter libros auunculi mei lectitas ..."; aa3r (=3r), "CAII PLINII SECVNDI NATVRALIS HISTORIAE LIBER PRIMVS."; bb1r (=17r), "C. PLINII SECVNDI NATVRALIS HISTORIAE LIBER SECVNDVS INCI."; II4r (=306r), COLOPHON: "CAII PLINII Secūdi

Naturalis hystoræ Liber trigesimus septimus & ultimus Finit. Ve= | netiis impressus opera & impensa Thomæ de blauis de Alexadria. Anno Natiuitatis Do- | mini. M. CCCC. LXXXXI. Die. III. Mensis Nouembris. Regnate Augustino Barbadico | inclito Venetorum Principe."; II4v (=306v), "CORRECTIONES. | In libro. iii. ubi sermo fit ..."; II6r (=308r), "REGISTRVM ... | (col. 5) manifestissimum | printer's device."

VERY SCARCE. Edited by Filippo Beroaldo (The Elder) and printed by Thomas de Blavis, de Alexandria.

REFERENCES: BL: • BMC XV: 5, 319 [IB 21874]. • Goff: P-796. • Hain, *Repertorium Bibliographicum*, 1826-38: HC 13097. • IGI: • Klebs, *Incunabula Scientifica*, 1938: no. 786.11. • LKG: III 3. • NUC: 461, 671-90 [NP 0424156]. • Oates, *Cambridge 15th Century Books*, 1954: no. 1880. • Proctor, *Index*, 1898-1906: no. 4768.

### 3767. — Latin, 1496 [April 20].

C. Plynus Secundus De Natua | li Hystoria diligentissi | me Castigatus.

2°: a<sup>8</sup>+2 b<sup>8</sup> c-e<sup>8</sup> f<sup>6</sup> g-z<sup>8</sup> & A-D<sup>8</sup> E-K<sup>8</sup> (K8, blank); 272ℓ.; no pagination or foliation. or: 56 lines and headline. PAGE SIZE: 308 x 187 mm. VERY SCARCE.

CONTENTS: COLOPHON, K6r (=270r): "Caii Plinii Secundi de naturali hystoria opus feliciter absolutum est: q̄ diligentissime castigatum: Imp̄ssum Brixiae opera & impensa Angeli & Iacobi de Britannicorum fratrum: Magnifico Equite | Hieronymo Donato Urbis pretore: Regnante Serenissimo principe Venetiarum Augustino Barbadico: Anno Natiuitatis Domini. M.cccc.lxxxxvi. die. xx. Aprilis."

REFERENCES: BMC XV: 7, 977 [IC 31152]. • Goff: P-797. • Hain, *Repertorium Bibliographicum*, 1826-38: HC 13098. • IGI: • Klebs, *Incunabula Scientifica*, 1938: no. 786.12. • NUC: 461, 672 [NP 0424157]. • Proctor, *Index*, 1898-1906: no. 6992.

### 3768. — Latin, 1496 [December 12].

C. Plynus Secundus De Natuali | Hystoria diligentissime | Castigatus.

2°: a<sup>6</sup> b<sup>8</sup> c-z<sup>8</sup> &<sup>8</sup> γ<sup>8</sup> ρ<sup>8</sup> A-C<sup>8</sup> D<sup>10</sup> (D10 blank); 240ℓ.; no pagination or foliation. Types 2:80R2 & 3:106R (title), 62 lines and headline, woodcut initials, 3-line capital spaces with guide-letters. PAGE SIZE: 250 x 156 mm.

CONTENTS: alr (=1r), Title.; a2r (=2r), Life of Pliny, letter by Joannes Britannicus to Luca Tertius, letter by Alexander Benedictus to Matthaeus Rufus, and letter by Rufus to Nicolaus Perotus, with wording: "CAII PLYNII VITA."; a3v (=3v), "CAIVS PLYNIVS MARCO SVO SALVTEM."; a4r (=4r), Ancient authors (Suetonius, Tacitus and Tertullian) on Pliny.; a4v (=4v), Beginning of book I. with wording: "CAII PLYNII SECVNDI NATVRALIS HYSTORIAE LIBER. PRIMVS."; b3r (=9r), "CAII PLYNII SECVNDI NATVRALIS HYSTORIAE LIBER SECVNDVS."; c1r (=15r), Book 2.; D9v (=239v), COLOPHON: "Caii Plynii Secundi de naturali hystoria opus feliciter absolutum est: quā diligentissmæ castigatum: Imp̄ssum Venetiis accuratissime p Batrolameū de Zānis de portesio āno nri saluatoris. M.cccclxxxxvi. | di. xii. mensis Decēbris. | REGISTRVM | ... | (col. 3) Aut quæ."; D10 (=240), Blank.

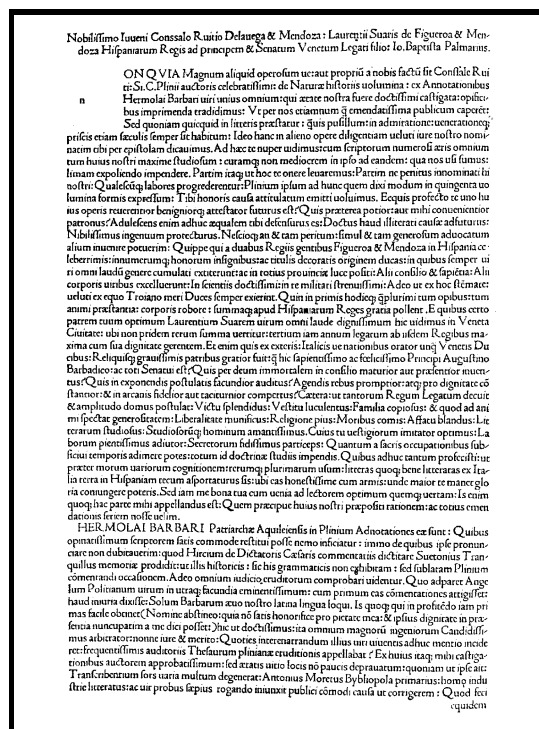
VERY SCARCE. This edition reprints the text of Angelus and Jacobus Britannicus first printed at Brescia in the same year, including the letter by Rufus, in which he attempts to prove that Pliny was born in Verona and not Como. The letters of Britannicus and



## PLINIUS SECUNDUS: LATIN EDITIONS

Benedictus also support this assertion.

REFERENCES: BMC XV: 5, 433 [IB 23721]. • Goff: P-798. • Hain, *Repertorium Bibliographicum*, 1826-38: HC \*13100. • Thienen, *Incunabula in Dutch Libraries*, 1983: no. 3733. • IGI: no. 7890. • Klebs, *Incunabula Scientifica*, 1938: no. 786.13. • LKG: III 3. • NUC: 461, 672 [NP 0424159]. • Polain, *Catalogue*, 1932: no. 3202. • Proctor, *Index*, 1898-1906: no. 5336. • Sander, *Livre à Figures Italien*, 1941: no. 5759.



HISTORIA NATURALIS, 1497/8 (TEXT LEAF)

**3769. — Latin, 1497/8.**

C. PLINII SECVNDI NATVRAE HI | STORI-  
ARVM LIBRI. XXXVII. | E CASTIGATIONIBVS  
| HERMOLAI BARBA | RI QVAM EMEN |  
DATISSIME | EDITI.

2°: a-e<sup>8</sup> f<sup>6</sup> g-z<sup>8</sup> & A-I<sup>8</sup> K<sup>6</sup> (x3 signed x2); 268ℓ.; no pagination or foliation. Types 110 (108)R & 105Gk, 55 lines, capital spaces with guide letters, catchwords. PAGE SIZE: 405 x 270 mm.

CONTENTS: a1r (=1r), Title.; K6r (=268r), "Reg-  
istrum huius operis. | ... terni. | (COLOPHON: C. Plinii  
Secundi de naturali historia libri .xxxvii. Ex castigati-  
onibus Hermolai Barbari diligentissime | Recogniti. Impressi  
Venetiis p Bernardinū Benaliū anno a Natali Christiāo. M.  
CCCCLXXXVII. | Cum gratia & priuilegio ut in eo."

RARE. Edited by Ermolao Barbaro and revised by  
Joannes Baptista Palmarius [see notes below]. Printed  
by Bernardino Benalio. "This appears to be the first  
edition of Barbarus' recension, the note on the 1496  
edition by the same printer being probably due to a  
confusion" (BMC).

**Ermolao Barbaro.** (BORN: Venice, Italy, 21 May 1454;  
DIED: Rome, Italy, 14 June 1493) *Italian translator & scholar.*  
From an early age he studied in Rome and eventually  
received a degree from the University of Padua. In 1477  
he became there a professor of philosophy. He translated  
and edited many classical works during his lifetime.

**Joannes Baptista Palmarius.** (BORN: ; DIED: ) .

[ BIOGRAPHY NEEDED ]

REFERENCES: BMC XV: 5, 377 [IC 22396]. • Goff:  
P-799. • Hain, *Repertorium Bibliographicum*, 1826-38: H  
13101. • IGI. • Klebs, *Incunabula Scientifica*, 1938: no.  
786.14. • NUC: 461, 671-90 [NP 0424163]. • Proctor, *Index*,  
1898-1906: no. 4893A. (Barbaro) ABI: I 104, 443-454;  
104,456-457; II 37, 150-154. • *Encyclopaedia Britannica*,  
11th edition: 3, 382. • Mazzuchelli, *Gli Scrittori d'Italia*,  
1753-63. • *Nouvelle Biographie générale* (Hoefler). • WBI.  
(Palmarius)

**3770. — Latin, 1499.**

C. plinii secundi naturae histo | riarum libri.  
XXXvii. e ca | stigationibus hermo | lai barbari  
quam | emendatissi | me editi.

2°: a-b<sup>8</sup> c-e<sup>8</sup> f<sup>6</sup> g-z<sup>8</sup> & A-I<sup>8</sup> K<sup>6</sup>; 268ℓ.; no  
pagination or foliation. Types 180G and 83R, 57 lines,  
capital spaces with many guide letters. PAGE SIZE: 290  
x 195 mm.

CONTENTS: a1r (=1r), Title.; a1v (=1v), "Nobilissimo  
Iuueni Consalo Ruitio Delauega & Mendoza: Laurentii  
Suaris de Figueroa & | Mendoza Hispaniarum Regis  
ad Pricipem & Senatū Venetū Legati filio: Io.  
Baptista palmarius."; a4r (=4r), "CAII PLINII SECVNDI  
NATVRALIS HISTORIAE LIBER PRIMVS."; K6r  
(=268r), COLOPHON: "C. Plinii Secundi de naturali  
historia libri. xxxvii. Ex castigatiōibus Hermolai Barbari  
diligētissime | Recogniti. Impressi Venetiis p Ioannē  
Aluisium de Varisio Mediolanensem āno a Natali Cristiāo.  
| M. CCCCLXXXIX. die. xviii. Maii: Cum gratia &  
priuilegio ut in eo."

VERY SCARCE. Edited by Hermolaus Barbarus,  
revised by Joannes Baptista Palmarius and printed by  
Joannes Alvisius. A very close reprint, with the same  
quiring, of Benalio's 1497/8 edition (BL IC 22396).

REFERENCES: BMC XV: 5, 572 [IB 24690]. • Goff:  
P-800. • Hain, *Repertorium Bibliographicum*, 1826-38: H  
13104. • IGI. • Klebs, *Incunabula Scientifica*, 1938: no.  
786.15. • NUC: 461, 671-90 [NP 0424164]. • Polain,  
*Catalogue*, 1932: no. 3203. • Proctor, *Index*, 1898-1906: no.  
5636.

**3771. — Latin, 1507.**

C. Plinii. Secundi. Veronesis Historiae Naturalis  
Libri XXXVII. ab Alexādro Benedicto Ue. Physico  
emendatiores redditī ... [Venetiis, Impressum  
per Ioānem Rubeum & Bernardinum fratresq,  
Vercellensis, 1507].

8°: aa-bb<sup>8</sup>, a-z<sup>8</sup>, &<sup>8</sup>, A-M<sup>8</sup>; 304ℓ.; [16], 280,  
[8]ℓ. Errors in foliation: leaves 209-279 numbered 210-  
280, leaf 280 unnumbered. COLOPHON: "Hoc opus ...  
impressum fuit per Ioānem Rubeum & Bernardinum  
fratresq; Vercellenses ab incarnatione anno Domini,  
1507, die, xvi. Ianuarii." PAGE SIZE: 315 x 215 mm.

VERY SCARCE. This early post incunabula edition  
is the first to be edited and contain annotations  
by Alessandro Benedetti [see note below]. It is

an attractive edition containing numerous ornamental woodcut initials.

**Alessandro Benedetti (Benedict).** (BORN: c1450; DIED: 1512) *Italian anatomist.* Benedetti opened a medical practice in Venice in 1495. His medical and anatomical works held a high reputation in his time.

REFERENCES: NUC: **461**, 671-90 [NP 0424165]. (**Benedetti (Benedict)**) ABI: I 135, 135; I 135, 127-134. • Jöcher, *Gelehrten-Lexikon, Supplement.* • Mazzuchelli, *Gli Scrittori d'Italia*, 1753-63. • *Nouvelle Biographie Générale* (Hoefer). • Thomas, *Dictionary of Biography*, 1884: 323. • WBI.

### 3772. — Latin, 1508.

In libros naturalis hystorie epistola. Cu Johanis [Rhagius] Aesticapiani. Leipzig, 1508.

[7] f. 8vo VERY SCARCE.

### 3773. — Latin, 1508.

Historiae naturalis [Venice, Aldine, 1508?].

4°: VERY SCARCE.

REFERENCES: Winship, G.P., "The Aldine Pliny of 1508," *Library, 4th Series*, **6** (1926), 358-69.

### 3774. — Latin, 1509.

De Plinii, et plurium aliorum medicorum in medicina erroribus ... Ejusdem Nicolai epistola ad Hermolaum Barbarum in primi operis defensionem. Ejusdem Nicolai de Plinii et plurium aliorum medicorum erroribus novum opus ... Ejusdem Nicolai ad Hieronymum Menochium epistola, in qua eadem materia de multis simplicibus medicamentis pertractatur, et quaedam Plinii, atque aliorum medicorum errata continentur. Ferrara, J. Maciochius, 1509.

4°: [4], 95, [3]ℓ

VERY SCARCE. Leonicens, Niccolo, 1428-1524. // Barbaro, Ermolao, 1454-1493. // Menochium, Hieronymum.

**Niccolo Leonicens.** (BORN: 1428; DIED: 1524) *Italian physician.*

**Hieronymum Menochium.** (BORN: ; DIED: ) . Giovanni Stephanie [1576-1655]??.

[  
BIOGRAPHY NEEDED  
]

### 3775. — Latin, 1509.

De Plinii, & plurium aliorum medicorum in medicina erroribus, Ejusdem Nicolai Epistola ad Hermolaum Barbarum in primi operis defensionem. Ejusdem Nicolai de Plinii, & plurium aliorum medicorum erroribus novum opus ... Ejusdem Nicolai ad Hieronymum Menochium epistola, in qua eadem materia de multis simplicibus medicamentis pertractatur, & quaedam Plinii, atque aliorum medicorum errata continentur. [Microform] [Ferrariae, Per Joannem Maciochium, 1509]

[4], 95, [3]ℓ. 21 cm.

VERY SCARCE. Errata: last 2 leaves. Master microform held by: GmC.

Leonicens, Niccolo, 1428-1524. // Naturalis historia.

### 3776. — Latin, 1510.

... Historiae naturalis libri decem et octo secundi voluminis ... [Lyons, Balthazard de Gabiano, 1510.] 2 vols. in 4. ff. (17), 680 [380].

VERY SCARCE. A counterfeit Aldine edition, reprint of the 1507 edition.

Alessandro Benedetti, ca. 1450-1512, editor.

REFERENCES: Baudrier, *Bibliographie Lyonnaise*, 1895: **7**, 24-5. • NUC: **461**, 671-90 [NP 0424168].

### 3777. — Latin, 1511.

Naturalis hystoriae libri xxxvii, diligenti labore nuper nec antea in Parrhisorum Academia emendatiores impressi atque recogniti. [In Lutece Parrhisorū Academia ĩpressa F. Regnault at J. Frellon impendio, 1511.]

2°: ff. (20), cclviii.

VERY SCARCE. Edited by Nicolaus Maillard [see note below].

**Nicolas Maillard.** (BORN: ; DIED: ) .

[  
BIOGRAPHY NEEDED  
]

REFERENCES: NUC: **461**, 671-90 [NP 0424169]. (Maillard)

### 3778. — Latin, 1513.

C. Plinij Secundi Veronensis Historiae Naturalis Libri XXXVIJ. aptissimis figuris exculti, ab Alexandro Benedicto Ve., physico emendatiores reddit. [Venetiis, 1513].

2°: aa<sup>8</sup> bb<sup>6</sup> a-z<sup>8</sup> &<sup>8</sup> [con]<sup>8</sup> R<sup>10</sup> A<sup>10</sup> (A10 blank); 234ℓ.; [14], CCXIX, [1] leaves, illus., 3 maps. Title page printed in red and black. Melchior Sessa's devices on title page and last page. Numerous errors in foliation: leaves CXXXXV-CLX erroneously numbered CLXXXV-CXCVIII, CXIC, CXIC. Illustrations: 38 prints: woodcut; image 21 x 9 cm. (1) and 8 x 9 cm. For detailed description, see Essling. 2 prints: woodcut; 8 x 6 and 4 x 4 cm. COLOPHON: Impressus Venetiis, summa diligentia, per Melchiorem Sessam, anno reconciliate natiuitatis, M.D.XIII.

VERY SCARCE. Edited by Alessandro Benedetti, [ca. 1450-1512], and probably printed for Sessa by Agostino de Zanni.

REFERENCES: Essling, *Livres à Figures Vénitiens*, 1907-14. • Kristeller, *Italienische Buchdruckerzeichen*, 1893: nos. 295 & 297. • LKG: III 3. • NUC: **461**, 671-90 [NP 0424172]. • Vaccaro, C., *Marche dei Tipografi*, 19??: p. 376. • Zappella, G., *Marche dei Tipografi*, 19??: figs. 595 & 314.

### 3779. — Latin, 1513.

Caii Plinii Secundi Naturalis Historiæ Libri XXXVII. Paris, Ponset le Preux, 1513.

2°: [40] p., 262ℓ. Title page framed in woodcuts, printer's device, and initials. VERY SCARCE.

**3780. — Latin, 1514.**

Caii Plynii Secundi Ceronensis Naturalis Hystoriae Libri xxxvij, diligenti admodum labore: peruigiliqꝫ cura Nuper nec antea in alma Parrhisorum academia emendatiores Impressi atqꝫ recogniti. Qui in edibus francisci regnault eiusdem academiae bibliopolae in via Iacobi sub intersigno Beati Claudij commorantis Venales prostant. [Parrhisiis, ab Nicolao de Pratis, 1514.]

2°: [20], CCLXII numbered *l* COLOPHON: ... Quae omnia Parrhisijs ab optimo calcographo Nicolao de Pratis emunctim sui luce, rursus eduntur ... M.D. XIII. Idibus Iunij.

VERY SCARCE. Edited by Nicolaus Maillard [?–??]. A reprint of the Paris edition of 1511.

REFERENCES: NUC: 461, 671-90 [NP 0424174].

**3781. — Latin, 1515.**

Liber septimus naturalis historie ... [Vienne, Ioannes Singrenius ... 1515].

2°: VERY SCARCE.

REFERENCES: NUC: 461, 671-90 [NP 0424175].

**3782. — Latin, 1516.**

Historiae natv[alis] lib. XXXVII. [Venetiis, A Philippo Pincio impressum, Mccccxvi].

[524] p. illus. 30 cm. (fol.)

VERY SCARCE. Title in red and black; initials; side notes. At head of title: C. plinii secundi.

**3783. — Latin, 1516.**

C. Plinii Secundi Historiae Natv. lib. XXXVII. olim ab Alexandro Benedicto castigati. nunc autem ex collatione multorum exemplariorum diligentius recogniti. [Venetiis, á Philippo Pincio Marguano Impressum. Anno dominini. M. CCCCC.XVI. di ultimo decébris].

2°: [32] p., ccxlv leaves, [2] p. Title in red and black; manuscript notes in the margins; initials. COLOPHON: Venetiis a Philippo pincio Mantuano impressum. Anno dominini Mccccxvi.

VERY SCARCE. Edited by Alessandro Benedetti [see note under ??].

REFERENCES: NUC: 461, 671-90 [NP 0424185].

**3784. — Latin, 1516.**

Caii Plinii Secundi ... Naturalis Historiæ Lib[r]i XXXVIJ. Diligenti studio ex multorum observationibus auctorum in varietate lectionis. Emendatius q[uam] vnq[uam] antea in famigerabili parhisorum lyceō Impressi & fidelius recogniti. Parisiis [Recognitum & impressum per Nicolaum de Pratis] Veneunt in edibus Francisci regnault [1516].

2°: [36], cclxii *l*. Printer's device on the title page. Colophon dated 5 August 1516.

VERY SCARCE. Edited by Alexander Benedictus [ – ].

REFERENCES: BM/STC French: 356. • NUC: 461, 671-90 [NP 0424184]. • Panzer, *Ältern Deutschen Litteratur*, 1788-1802: 8, 35, no. 894.

**3785. — Latin, 1516.**

Caii Plinii Secundi Veronensis / Naturalis Historiæ Libri .xxxvij. diligenti studio ... impressi & fidelius recogniti. Veneunt Parisiis In edibus Emundi Fabri fidelis bibliophole in via Iacobea sub intersignio Lune Crescentis commorantis. [Impressuꝫ per Nicolaum de Pratis. Anno a partu Deipare Virginis. 1516. Nonis Augusti].

2°: AA-CC<sup>6</sup> a-z<sup>8</sup> &<sup>8</sup> A-G<sup>8</sup> H<sup>6</sup> I<sup>8</sup>; ??*l*.; [18], CCLXII numbered *l*

VERY SCARCE. Edited by Nicolas Maillard [ – ].

REFERENCES: NUC: 461, 671-90 [NP 0424182].

**3786. — Latin, 1516.**

Caii Plynii Secundi Naturalis Historiæ libri. XXXVII nuper studiose recogniti, atqꝫ impressi adiectis varijs Antonij Sabellici, Raphaelis Volaterani, Beroaldi, Erasmi, Budei, Longolij adnotationibus, quibus Mundi histoira locis plerisqꝫ vel restituitur vel illustratur. Cum gratia ꝛ priuilegio. Veneunt Luteciæ, in via Iacobea sub signo ensis, et in ædibus Reginaldi Chalderij sub signo sylvestris hominis. [Paris, (Jean Barbier) for Nicolas Bérauld and Regnaud Chaudière I, 1516].

2°: [18], cclxxiii [i.e., 275] numbered *l*. The last three leaves (273-275) numbered alike cclxxiii. With many initials on criblé ground, and the title with a beautiful printer's device of R. Chaudière. Colophon: Impressa est Lutetiae hec Mundi historia ex diligentissima recognitione. Impensis Beraldi, & Reginaldi Chalderij, in quorum ædibus vanales sunt libri. Anno a partu Christipare virginis .M.D.XVI. XVI. calendas decemb. ✱.

VERY SCARCE. Edited by Nicolas Bérauld [see note below]. This is the only book in which Bérauld's name occurs as publisher, and it is also one of the first books to be printed for the first of the Chaudières, who in 1514 started as a bookseller. The printer Jean Barbier (als called Tonsor, Passet) was originally with Julian Notary and J.Huvin at London (ca. 1496) and in 1498 he printed at Westminster together with Notary a missal for Wynkyn de Worde (Proctor 9742). In 1502 he established his print shop in Paris. He died while at work on the present book, the business being continued by Bérauld who married Barbier's widow. Therefore Barbier's address "sub signo ensis" figures here as Bérauld's press.

**Nicolaus Bérauld (Beraldus Aurelius).** (BORN: Orléans, France, 1473; DIED: 1550) *French philosopher & scholar.* Bérauld was a friend of Erasmus, and numbered among his proteges D'Andelot and Admiral de Coligny. In 1521, he published a Greek/Latin Dictionary, and in 1516 a translation of Pliny.

REFERENCES: Graesse, *Trésor de Livres Rares*, 1859-69: 5, 338-9 ["Cette édition a été soignée par Nic. Beraud et corrigée sur d'anciennes Éditions et sur ses conjectures."].

• NUC: 461, 671-90 [NP 0424177]. • Renouard, *Imprimeurs Parisiens*, 1898. • Schweiger: 2, 785. (Bérauld (Beraldus Aurelius)) *Nouvelle Biographie Générale* (Hoefer). • Thomas, *Dictionary of Biography*, 1884: 330.

**3787. — Latin, 1518.**

C. Plynii Secvndi Natvræ historiarum libri XXXVII, e castigationibus Hermolae Barbari quam emendatissime editi. Additus est ad maiorem studiosorum commoditatem, Index Ioannis Cametis Einoritani, quo Plynus ipse totus breui mora temporis edisci potest ... [Lucae Alantsee, 1518].

2°: cclxxxvi, [96]ℓ. With two woodcut title borders and printer's device. Title printed in red and black. COLOPHON: Sumptibus ornatissimorum uirorum Ioannis Kobergii, ac Lucae Alantsee, impressum Magenoæ opera industriaq; Thomæ Anshelmi badensis mense nouembri anno. M.D.XVIII. Index has its own title page and is without foliation.

RARE. Reprint of the Venetian edition of 1497, edited by J.B. Palmarius. Humanist's edition of Pliny's Natural History with Ermolao Barbaro's (1453/4-1493) *Castigationes Pliniane* (1st ed., Rome, 1492) which was the most authoritative discussion of Pliny's work available. The texts include those edited by Thomas Canner, J. Vadianus, B. Chelidonius and G. Germanius. The Register, which appears here with its own title-page, is by Johann Camers. The dedicatory letter to Emperor Maximilian is by the German humanist, Jacob Spiegel (ca. 1483-1547), and dated July 1518. Spiegel was a friend of Erasmus, Luther, Melanchthon and Hutten (see *Contemporaries of Erasmus* 3, pp. 270-272).

Curious and indefatigable, Pliny recorded the science of Rome at its zenith. His duties as soldier, lawyer, and governor of provinces afforded much time for travel and observation. His *Historia Naturalis* in 37 books is written in the form of an encyclopedia. It describes the natural sciences including geography, anthropology, botany, zoology, medicine, mineralogy and the arts. Pliny was a martyr to his curiosity in trying to observe the eruption of Vesuvius in 79 A.D. and found himself a bit too near the volcano. (Dibner)

Barbaro, Ermolao, 1454-1493. // Camers, Joannes, 1447-1546.

REFERENCES: Benzing, Anshelm: 33. • NUC: 461, 671-90 [NP 0424187]. • Panzer, *Ältern Deutschen Litteratur*, 1788-1802: 4, 86, 149. • Proctor, *Index*, 1898-1906: no. 11695. • Ritter: 1887. • Zinner, *Astronomischen Literatur*, 1964: 1096.

**3788. — Latin, 1519.**

C. Plinii Secvndi Liber septimvs Natvralis historiae. Seorsum impressus & emedatus perū diligenter. [Vienna, 1519]

4°: a-f4; 24ℓ.; [47] p. Title within an ornamental border. COLOPHON: Viennæ Pannoniæ apud Ioannem Singreniū. Anno salutis. M.D.XIX.

VERY SCARCE. Edited by Philippus Gundelius [see note below].

Philippus Gundelius. (BORN: 1493; DIED: 1567) .

[ { BIOGRAPHY NEEDED } ]

REFERENCES: NUC: 461, 671-90 [NP 0424189]. (Gundelius) ADB. • DBA: I 439, 218-222; II 497, 43. • Jöcher, *Gelehrten-Lexikon*, 1750-51. • WBI.

**3789. — Latin, 1519.**

Natvrae historiarum libri xxxvii: E castigationibus Hermolai Barbari, quamemendatissime editi. Additus est ad maiorem studiosorum commoditatem index Ioannis Camertis Minoritani, quo Plynus ipse totus brevi mora teporis edisci potest. [Venetiis, Sumptibus L.A. de Giunta; impressum in ædibus G. de Rusconibus, 1519].

2°: 286, [79]ℓ. Imprint from colophon.

VERY SCARCE. Edited by J.R. Palmarius [see note below]. Based on the Hagenau 1518 ed., which first incorporated the 2-part Index Plinianus by Joahannes Camers. This index, printed at the same Venice press in 1520, has a special title page in read and black, with ornamental woodcut borders, initial letters and colophons.

Barbaro, Ermolao, 1454-1493. // Camers, Joannes, 1447-1546.

Joannes Baptista Palmarius. (BORN: ; DIED: ) .  
[ { BIOGRAPHY NEEDED } ]

REFERENCES: NUC: 461, 671-90 [NP 0424190]. (Palmarius)

**3790. — Latin, 1523.**

Historiae Naturale Libri XXXVII. Olim ab Alexandro Bendicto castigati. Nunc autem ex collatione multorum exemplariorum diligentius recogniti. [Venetiis, 1523].

8°: aa-bb8 a-k8 (k8 blank) a-z8 &8 A-F8 G6; ??ℓ.; [96], 245, [1]ℓCOLOPHON at the end of the first part: Impressum Venetiis per Bernardinum de Vianis de Lexona Vercellensem, 1523. COLOPHON at the end of the text: Venetiis a Philippo Pincio Mantuano impressum, 1516.

VERY SCARCE. Edited by Alessandro Benedetti [d. 1525] and containing the index by Joannes Camers [1468-1546].

REFERENCES: NUC: 461, 671-90 [NP 0424192].

**3791. — Latin, 1524.**

... Naturalis histoirae opus, ab innumeris mendis a D. Johanne Caesario ... vindicatum, inventa primum ab eo. & a ulio quidem antea animadversa, concinna ratione quadam id opus in septem pemptadas sive quinariorum dispartiendi: adiectisque in singulos argumentis, & breviusculis simul in margine scholis, ab eodem illustratum. Coloniae, In aedibus Eucharii Cervicorni, 1524.

2°: [56], 162ℓ

## PLINIUS SECUNDUS: LATIN EDITIONS

VERY SCARCE. Edited by Johannes Caesarius [1468?–1550?].

REFERENCES: NUC: 461, 671-90 [NP 0424193].

### 3792. — Latin, 1524.

C Plinii Se | cvndi Natvralis Historia | opus,  
ab innumeris mendis à D. Iohan. Cæ | sario  
Iuliacen. uiro infigniter erudito, uindi- | catum:  
inuenta primum ab eo, & à nullo qui | dem  
antea animaduërfa, concinna rône qua- | dam  
id opus in septê pemptadas fiue quina- | rios  
difpartiendi:adjectisq. in singulos argu | metis, &  
breuiufculis fimul in margine fcho | liis, ab eodem  
illuftratam.

2°: Aa-Bb<sup>8</sup> a-z<sup>8</sup> A-R<sup>8</sup> Q<sup>7</sup> a-c<sup>6</sup> d-g<sup>4</sup> h-i<sup>6</sup> k-l<sup>4</sup> m<sup>6</sup>; ??ℓ.; [32], 311 numbered ℓ., 60ℓ. Title surrounded by historiated border depicting scenes from legends and myths. Woodcut initials. The index has special title page with an ornamental border. COLOPHON: Apud sanctam Vbiorum Coloniam Agrippinam, in ædibus Eucharij Ceruicorni, anno à partu uirginis matris M.D.XXIII. mense augusto. PAGE SIZE: 325 x 215 mm.

VERY SCARCE. Edited by Johannes Caesarius [see note below].

**Johannes Caesarius.** (BORN: 1468?; DIED: 1550?)  
*German humanist.*

[ BIOGRAPHY NEEDED ]

REFERENCES: Adams, *Cambridge Books*, 1967: P-1556.  
• BM/STC German: 704. • Ebert, *General Bibliographical Dictionary*, 1837: no. 17272. • Graesse, *Trésor de Livres Rares*, 1859-69: 5, 339. • NUC: 461, 671-90 [NP 0424196].  
• VD16: P-3531. (Caesarius) ADB. • BAB: I 121, 221-224. • DBA: I 173, 310-313; II 211, 142-143. • Eckstein, *Nomenclator philologorum*, 1871. • Hirsch, *Biographisches Lexikon*, 1884-8. • Jöcher, *Gelehrten-Lexikon*, 1750-51. • *Nouvelle Biographie Générale* (Hoefler). • NDB. • WBI.

### 3793. — Latin, 1524.

C. Plinii Secvndi Natvræ Historiarvm libri XXXVII. E castigationibus Hermolai Barbari, Quam emendatissimi editi. Additus est ad maiorem Studiosorum commoditatem Index Ioannis Camertis Minoritati ... Parisiis: Ex officina honesti viri Petri Gadoul Bibliopolæ adscriptii ad templi diui Hilarij, Sub signo geati Cirici, 1524.

2°: [34], CCCCXXXVI (i.e. 537), [1], [190] p., title in red and black with woodcut border by Urs Graf. COLOPHON: Excudebat Petrus Vidoueus 1524, with his mark on the verso of page CCCCXXXVI. The index as a special title page: Prima pars Pliniani indicis VERY SCARCE.

REFERENCES: LKG: III 3. • NUC: 461, 671-90 [NP 0424198].

### 3794. — Latin, 1525.

C. Plinii Secundi Naturalis historie libri xxxvii e castigatiōibus Hermolai Barbari ac codicis I Alemania impressi emedatissimi editi. Additio

indice copiosissimo figurisq ad singulorum librorum materiam aptissimis. [Venetiis: M. Sessam & P. Serenae, 1525].

8°: aa<sup>8</sup> bb<sup>6</sup> a-z<sup>8</sup> &<sup>8</sup> 2<sup>8</sup> [con]<sup>10</sup> A<sup>10</sup> AA-II<sup>8</sup>; ??ℓ.; [14], CCXIX, [72]ℓ., illus. Title pages in red and black with ornamental borders consistings of scenes from Roman history and portraits of Greek and Latin writers. Printer's device on the title pages. The index has a separate title page. COLOPHON: Impressum Venetiis summa diligentia per Melchiorum Sessam & Petru Serenæ, socios, anno reconciliate natiuitatis. M.D.XXV. die. XXIII. martii.

VERY SCARCE. The index by Joannes Camers (with special title page, 72 leaves at end) is dated 1525.

Barbaro, Ermolao, 1454-1493. // Camers, Joannes, 1447-1546.

REFERENCES: NUC: 461, 671-90 [NP 0424203].

### 3795. — Latin, 1525.

Ioannes Frobenius lectori S. D. En damus C. Plinii Secundi divinum opus cui titulus, Historia mundi, multo quam antehac unquam prodijt emanulatus: idq[ue] primum ex annotationibus eruditorum hominum, praesortim Hermolai Barbari: deinde ex collatione exemplariorum. quae hactenus opera doctorum nobix quam fieri potuit emendatissime sunt excusa: postremo ex fide uetustissimorum codicum, ex quibus non pauca restituimus, quae alioque nemo, quamlibet eruditus uel deprehendit, uel deprehendere poterat. Absit inuidia dicto. Vicimus superiores omneis. Si quis hanc palmam nobis eripuerit, non illi quide[m] inuidebimus, sed studijs publicis gratulabimur. Bene uale lector, & fruere Agathe tyche. Additus est index, in quo nihil desideres. Basileae: apud Io. Frobenium, Mense Martie, An. M. D. XXV.[1525]

2°: A-C<sup>6</sup> a-z<sup>8</sup> A-Z<sup>8</sup> Aa-Kk<sup>6</sup> a<sup>8</sup> b<sup>6</sup> c<sup>8</sup> d-g<sup>6</sup> h<sup>10</sup> A-C<sup>6</sup>; ??ℓ.; [36], 671, [143] p. Gg4 misnumbered G4. Includes index. printer's device on the title page; verso of p. 671, title page of the index; verso of the final leaf. Index title: Index in Universum naturalis historiae. C. Plinii apus, summa diligentia collectus. Woodcut initials. Page 179 and 375 misnumbered 189 and 75. Printed marginalia.

SCARCE. Edited by Desiderius Erasmus and printed by Johann Froben [see notes below].

**Desiderius Erasmus.** (BORN: Rotterdam, The Netherlands, 28 October 1466; DIED: Basel, Switzerland, 12 July 1536) *Dutch humanist & theologian.* Erasmus, was born the illegitimate son of a physician's daughter by a man who afterwards turned monk. He was called Gerrit Gerritszoon (Dutch for Gerard Gerardson) but later adopted the tautological double name by which he is known. He attended the school of the "Brothers of the Common Life" at Deventer. On his parents' death his guardians insisted on his entering a monastery and in the Augustinian college of Stein near Gouda he spent six years – it was certainly this personal experience of the ways of the monks that made Erasmus their relentless enemy. At length the Bishop of Cambrai made him his private secretary. After taking priest's orders Erasmus went to Paris, where

he studied at the Collège Montaigu. He resided in Paris until 1498, gaining a livelihood by teaching. Among his pupils was Lord Mountjoy, on whose invitation probably Erasmus made his first visit to England in 1498. He lived chiefly at Oxford, and through the influence of John Colet his contempt for the Schoolmen was intensified.

In 1500 he was again in France, and for the next six years lived chiefly at Paris. In 1506 he made a short visit to England, carried out a long-desired journey to Italy, and at Padua acted as tutor to Alexander, Archbishop of St. Andrews, natural son of James IV of Scotland. His visit closed with a short stay in Rome, whence he carried away a far more friendly impression than did Luther when he made his visit.

The accession of Henry VIII, and the invitation of Lord Mountjoy, induced Erasmus once more to make England his home. In his satire, *Encomium Moriae* (1509), we have him in his happiest vein, as the man of letters and the critic of kings and churchmen. Erasmus resided chiefly at Cambridge, where he acted as Margaret professor of Divinity and professor of Greek. After 1514 he lived alternatively in Basel and England, and from 1517 to 1521 at Louvain.

In 1516 was published his annotated New Testament, virtually the first Greek text, and in 1519 his edition on St. Jerome in nine folio volumes. In both of these works the aim of Erasmus was to introduce a more rational conception of Christian doctrine, and to emancipate men's minds from the frivolous and pedantic methods of the Scholastic theologians. But when the Lutheran revolution came he found himself in the most embarrassing position. Those of the old order fell upon him as the author of all the new troubles. The Lutherans assailed him for his cowardice and inconsistency in refusing to follow up his opinions to their legitimate conclusions. In 1519 appeared the first edition of his *Colloquia*, usually regarded as his masterpiece. The audacity and incisiveness with which it handles the abuses of the Church prepared men's minds for the subsequent work of Martin Luther. In 1521 he left Louvain, where the champions of the old faith had made his stay unendurable and with the exception of six years in Freiburg, he spent the rest of his life at Basel.

He edited a long succession of classical and patristic writers, and was engaged in continual controversies. The most important of these were with Ulrich von Hutten, Luther, and the Sorbonne. Hutten judged Erasmus harshly for not taking his place by the side of Luther; and with Luther himself Erasmus, after long hesitation, crossed swords in his *De Libero Arbitrio* (1523). Attacked by men like Hutten on the one side, he was as fiercely assailed on the other by the Sorbonne. By his Ciceronians he raised against himself new adversaries – those humanists, namely, who set style above matter. Yet during his last years Erasmus enjoyed great fame and consideration.

**Johann Froben.** (BORN: Hammelburg in Franken, Germany, 1460; DIED: Basel, Basel-Stadt, Switzerland, 25 October 1527) *German printer.* Froben had his early education from the grammar school of his home town. By 1486 he was working in the print shop of Anton Koberger in Nuremberg. This business with 24 presses and over 100 employees was one of the largest printing enterprises of its time. By November, 1490 Froben had relocated to Basel, Switzerland and obtained a printing franchise there. He became very successful. About 1513, Froben persuaded the noted Biblical scholar Desiderius Erasmus of Rotterdam to come to Basel to prepare a Greek New Testament edition. Using manuscripts from the library at Basel University, the two men produced their Greek text in 1516. It became known as the *textus receptus* (Latin for received text). This was the book that was used as a basic guide for the translators of the King James Version. Erasmus continued to work with Froben, editing many of his publications and contributing to the fame of Froben's press for printing scholarly texts. Froben also employed the

then unknown Hans Holbein as book designer.

REFERENCES: Adams, *Cambridge Books*, 1967: P-1560. • NUC: 461, 671-90 [NP 0424201]. (Erasmus) (Froben) ADB: ??, ??. • *Encyclopaedia Britannica*, 11th edition. • Heilmann, *Kräuterbücher*, 1966: 389 & 391, portrait. • *Nouvelle Biographie Générale* (Hoefler).

### 3796. — Latin, 1526.

Opvs dilvinvm, cvi titulvs Historia Naturalis, multo quā antehac vnquā prodijt in lucē castigatius, vna cū annotationibus Hermolai Barbari, ac sincero exemplari eruditorū hominū, ex quo nonnulla etiā marginibus adscripta sunt. Adiectus est ad maiorem bonēindolis vtilitatem index notis arithmetis illustratus, nunc exactior multo atq; locupletior quam antes, quo Plinius ipse politus citra lassitudinem & intelligi queat & teneri. Parisiis, Veneunt ab A. Girault, 1526.

4°: a-z<sup>8</sup> &<sup>8</sup> A-M<sup>8</sup> A<sup>6</sup> B-H<sup>8</sup> I<sup>6</sup> K<sup>4</sup> a<sup>6</sup> b-c<sup>8</sup> ccccxvvi, [188] p. The index as a separate title page. Printer's device on the title pages.

VERY SCARCE. Edited by Angelus from Ermolao Barbaro [1454–1493] text and printed by Iehan Petit.

REFERENCES: NUC: 461, 671-90 [NP 0424205].

Erasmi Stellae Libanothani viri clariss. De ge[m]mis libellus unicus. Plinius Secundus de gemmis. Argentorati: Per Henricum Sybold, [1530?]

See: Stella, Erasmus.

### 3797. — Latin, 1530.

Hieronymvs Frobenivs amico lectori a.d. C. Plinii Secvndi ... Historia mvndi, denovo sic emendata, vt in svperiori æditione, qvæ tamen fuit accuratissima, præ hac dormitatum videri possit. In illa longo interuallo uiceramus cæteros, in hac longiore uicimus nos ipsos, potissimum adiuti tribus optimiæ fidei peruetustis exemplaribus, tum opera cuiusdam eruditi, qui sihi sumpserat hanc prouinciam nonnihil etiam Beati Rhenani doctissimis annotationibus, quæ utinam absoluisset ... Adiunctus est index copiosissimus. Basileæ, in officina Frobeniana, 1530.

Fol. Mit 4 wiederh. Druckerm. 18 Bll., 671 S.; 88 Bll. Ldr. d. 18. Jh. mit Rücken-u. Deckelvergoldung u. goldgepr. Deckelmedaillons mit Inschrift "Iesus Maria"; berieben, Deckel mit Schabstellen, 3 Ecken erneuert, Rücken u. Vorderdeckel mit wenigen Wurmsspuren.

VERY SCARCE. Edited by Beatus Rhenanus [see note below]. Zweite Froben-Ausgabe, mit der zur ersten Froben-Ausgabe erschienenen, 1525 datierten Vorrede des Erasmus Roterodamus. "Nach drei Handschriften verbessert von Beatus Rhenanus und Sigm. Gelenius" (C.). - Gering gebräunt, vereinzelt schwach stock- oder braunfleckig, wenige Bll. leicht wasserrandig. Titel etwas fingerfleckig u. mit zwei Einträgen in Tinte.

Based on Erasmus' edition issued by Froben in 1525 (his dedicatory letter dated 8 Feb. 1525 is here reprinted), this edition includes an index based on that

## PLINIUS SECUNDUS: LATIN EDITIONS

of Joannes Camers (i. e. Giovanni Ricucci Vellini) with half title ([176] p.)

Bildius, Beatus, Rhenanus, 1485-1547. // Camers, Joannes, 1447-1546. // Erasmus, Desiderius, d. 1536.

**Beatus Rhenanus.** (BORN: Schlettstadt, Alsace, Germany, 1485; DIED: Strassburg, Germany, 20 July 1547) *German humanist*. Born the son of a prosperous butcher, Rhenanus received his early education at the Latin school of his birth town. In 1503, he travelled to Paris, where he came under the influence of Jacobus Faber Stapulensis, an eminent Aristotelian. In 1511, he moved to Basel where he befriended Desiderius Erasmus and began an active participation in Johann Froben's publishing house. He supervised the printing of Erasmus' more important works from this press. In 1526, he returned to Schlettstadt and retired to a life of learned leisure.

REFERENCES: Adams, *Cambridge Books*, 1967: P-1561. • NUC: 461, 671-90 [NP 0424208]. • Van der Haeghen, F.R., *Bibliotheca Erasiana*, Bruxelles, 1897-1950: 2, 45. (**Rhenanus**) ABF: I 888, 266-289; II 549, 280. • ADB. • *Encyclopaedia Britannica*, 11th edition: 23, 233. • *Nouvelle Biographie Générale* (Hoefer). • Nicéron, *Mémoires*, 1729-42. • Sitzmann, E., *Dictionnaire de biographie des hommes célèbres de l'Alsace depuis les temps les plus reculés*. Rixheim, 1909-10. 2 vols. • WBI.

### 3798. — Latin, 1530.

C. Plinii Secvndi Historiarvm Natvræ Libri XXXVII, post omnes omnium editiones ... plurimie in locis ... restituti ... Parisiis Apud Galeorum à Prato in aula Regii Palatii maiore ad primam colmnam. [Impressum prælo Antonii Augerelli, impensis uero Ioannis Parui & Calecti à Prato, Mense Octobri] 1532.

2°: A-C<sup>6</sup> a-z<sup>6</sup> A-Kk<sup>6</sup> a-m<sup>6</sup> A-C<sup>6</sup> D<sup>4</sup>; ??ℓ.; [36], 671 p., 94ℓ

VERY SCARCE. Edited by Petrus Bellocirius [see note below].

**Petrus Bellocirius (pseudo) Pierre Danes.** (BORN: 1497; DIED: 1557) *Orientalist*. Pietro Bellocchio??

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REFERENCES: NUC: 461, 671-90 [NP 0424209]. (**Bellocirius (pseudo) Pierre Danes**) Griechisches Biographisches Archiv: I 341, 360 / 426, 259. • *Nouvelle Biographie Générale* (Hoefer). • WBI.

### 3799. — Latin, 1535.

C. Plinii Secvndi Historia mvndi, denovo emendata, non pascie locis ex diligeniti ad pervertvata et optimæ fidei exemplaria collatione nunc primū animaduersis castigatisq[ue], quemadmodum euidentur in Sigismundi Gelenij annotationibus operi adnoxis apparet. Adiunctus oet index copiosissimus. Apvd inclytam Basileam, anno M. D. XXXV. mense Martio.

4°: A-C<sup>6</sup> aaa-ccc<sup>6</sup> ddd<sup>8</sup> a-z<sup>6</sup> A-Z<sup>6</sup> Aa-Kk<sup>6</sup> a-g<sup>6</sup> h<sup>8</sup> A-B<sup>8</sup> (e3 numbered d3; h3 numbered H3); ??ℓ.; [44]ℓ., 671 p., [66]ℓ. Pages 235, 375 & 400 misnumbered 135, 575 & 408, respectively. Printer's mark on the title page, page [672] and the last leaf. The index has a separate title page. Woodcut initials. COLOPHON,

(p. 671): Apvd inclytam Basileam, per Hieronymvm Frobenium, Io. Heruagium, & Nicolaum Episcopium, Mense Februario. Anno. M. D. XXXV.

VERY SCARCE. Contains the preface of Erasmus, reprinted from his edition of 1525.

Erasmus, Desiderius, d. 1536. // Camers, Joannes, 1447-1546.

REFERENCES: NUC: 461, 0424215.

### 3800. — Latin, 1535-6.

C. Plinii Secvndi Natvralis Historiae prima [-tertia] pars. [Venetiis, in aedibus haeredvm Aldi, et Andreæ Asvlani soceri, 1535-] 1536.

[TITLE OF INDEX VOLUME:]

Index in C. Plinii Nat. hist. libros locupletior, & castigatior, quam qui hactenus impressi sunt. Ad didimus loca quaedam exeuterum exemplarium fide emendata: quae a nemine hactenus animaduersa erant. Venetiis, 1538.

3 vols. [VOL 1: 1536] 8°: A-F<sup>8</sup> a-z<sup>8</sup> A-P<sup>8</sup> Q<sup>4</sup>; ??ℓ.; [48], 314ℓ.; [VOL 2: 1535] 8°: aa-zz<sup>8</sup> AA-PP<sup>8</sup>; ??ℓ.; 303, [1]ℓ.; [VOL 3: 1535] 8°: aaa-zzz<sup>8</sup> AAA-OOO<sup>8</sup>; 295, [1]ℓ.; [Index volume] 8°: A-Z<sup>8</sup> AA-GG<sup>8</sup> HH<sup>12</sup> (HH12 blank); ??ℓ.; no pagination or foliation. Aldine device on each title page and verso of each final leaf. Capital spaces with guide letters.

VERY SCARCE. Edited by Andreas Rabirius and printed by Manuzio, family of printers, Venice.

**Andreas Rabirius.** (BORN: ; DIED: ) *Italian*.

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REFERENCES: NUC: 461, 671-90 [NP 0424219-26]. (**Rabirius**)

### 3801. — Latin, 1535.

Commentarii in librvvm secvndvm Historiae mvndi C. Plinii conscripti a Iacobo Milichio profeseore mathematicum in schola vuittenbergensi. Annon Domini 1534. Haganoae, ex officina Petri Brubacchij, An. Do. XXXV [i.e. 1535]

4°: B-Z<sup>4</sup>, AA-QQ<sup>4</sup>; ??ℓ.; [40], 13-80, 61-128 numberedℓ., illus. Woodcut printer's device on the title page. First page of the dedication within an ornamental border. Initials; woodcut border, composed of 4 pieces, for first leaf of dedication; headpiece repeated on recto of leaf [1] (2nd group). Includes index. COLOPHON: Haganoae ex officina Petri Brubachii. Anno Domini M.D.XXXV. Mense Augusto.

VERY SCARCE. Pliny's text with Milich's commentary. Milich's commentary traditionally considered to a large extent the work of Melanchthon. For a discussion of Milich's career and place within the circle of Melanchthon, see A history of magic and experimental science / Lynn Thorndike, v.5, p. 385-389.

Milich, Jakob, 1501-1559. // Melanchthon, Philipp, 1497-1560

**Jakob Milich (Milichius).** (BORN: Freiburg, Breisgau, Germany, 21 January 1501; DIED: Wittenberg, Germany,

10 November 1559) *German physician & philosopher*. Milich was professor of philosophy from 1527 to 1553, than medicine at the University of Wittenberg. His commentary on Pliny contains much on astronomy.

REFERENCES: NUC: 461, 671-90 [NP 0424218]. (Milich (Milichius)) ADB. • DBA: I 846, 353-354. • Jöcher, *Gelehrten-Lexikon*, 1750-51. • Jöcher, *Gelehrten-Lexikon*, 1750-51. • Jöcher, *Gelehrten-Lexikon*, Supplement. • Poggendorff: 2, col. 150. • WBI.

### 3802. — Latin, 1537.

Liber Secvndvs C. Plinii De mvndi historia, cum commentarijs Iacobi Milchij, Professoris Mathematicum in Sohola Vitæbergensi, diligentem conscriptis & recognitis. Vitæbergæ, Anno 1537.

4<sup>o</sup>: 210 num.ℓ., 8ℓ. (last blank), illus., diagrms.

COLOPHON: Avvevorvm in officina Petri Brubachij, anno XXXVIII, mense septembri.

VERY SCARCE. Commentary by Jakob Milich [1501-1559].

REFERENCES: NUC: 461, 671-90 [NP 0424228].

### 3803. — Latin, 1538.

Liber secvndvs C. Plinii de mvndi historia, cum commentarijs Iacobi Milichij diligenter conscriptis & recognitis, Vitæbergæ, Anno 1537. Halæ Sueurum, Ex Officina Petri Brubachij, 1538.

4<sup>o</sup>: 210, [7]ℓ VERY SCARCE.

REFERENCES: NUC: 461, 671-90 [NP 0424229].

### 3804. — Latin, 1538.

Index in C. Plinii Nat. hist. libros locupletior, & castigatior, quam qui hactenus, impressi sunt. Addidimus loca quaedam ex veterum exemplarium fide emendata; quae a nemine hactenus animadversa erant. Venetiis, 1538.

16<sup>o</sup>: 251 unnumberedℓ VERY SCARCE.

### 3805. — Latin, 1539.

Historiae mundi libri xxxvii ex postrema ad vetustos codices collatione cum annotationibus et indice. Basileae, 1539.

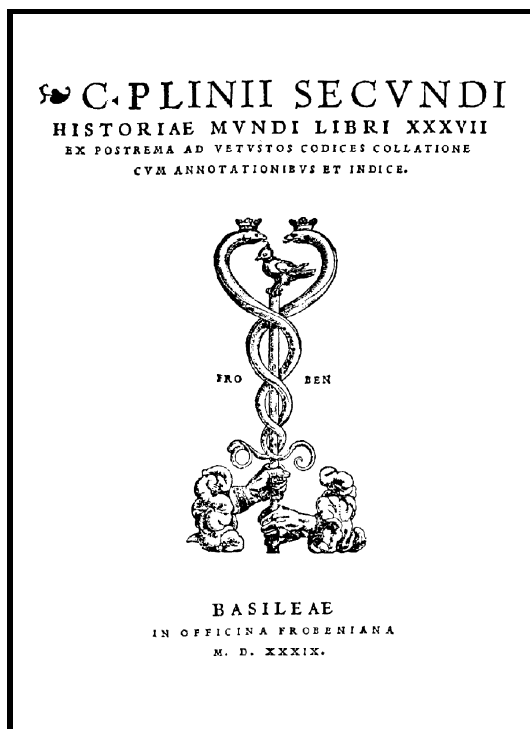
[34], [226] p. fol. VERY SCARCE.

### 3806. — Latin, 1539.

✠C. Plinii Secvndi | Historiae Mvndi Libri XXXVII | Ex Postrema Ad Vetvstos Codices Collatione | Cum Annotationibvs Et Indice. | [Printer's device] | Basileae | In Officina Frobeniana | M. D. XXXIX.

2<sup>o</sup>: A-C<sup>6</sup> a-z<sup>6</sup> A-Z<sup>6</sup> Aa-Kk<sup>6</sup> aaa-ccc<sup>6</sup> ddd<sup>8</sup> a-1<sup>6</sup> (a1v, blank) A-B<sup>6</sup> C<sup>8</sup>; [36], 671, [53] p.; [176] p.

VERY SCARCE. Based on Erasmus' edition issued by Froben in 1525 (his dedicatory letter dated 8 Feb. 1525 is here reprinted), this edition includes the Castigationes of Sigismund Gelen ([52] p., 1st group of paging) and an index based on that of Joannes Camers (i. e. Giovanni Ricucci Vellini). The latter ([176] p., 2d group) has special half title.



HISTORIAE MUNDI, 1539

Camers, Joannes, 1447-1546. // Erasmus, Desiderius, d. 1536. // Gelen, Sigismund, 1497-1554.

**Sigismund Gelen.** (BORN: Prague, Bohemia, 1497; DIED: Basel, Basel-Stadt, Switzerland, 1554) *Bohemian philosopher*. Gelen was a friend of Erasmus, who procured him the place of corrector of the press under Froben at Basel. He translated into Latin several works, and published a dictionary of Greek, Latin, German and Slavonian languages *Lexicon Symphonum quatuor Linguarum* (1537).

REFERENCES: NUC: 461, 671-90 [NP 0424232-5]. (Gelen) ADB. • *Nouvelle Biographie Générale* (Hoefer). • Thomas, *Dictionary of Biography*, 1884: 1013.

### 3807. — Latin, 1542.

Historiae naturalis. Praefatio, ad ueterum codicum fidem per Adrianum Turnebum emendata, & annotationibus illustrata. Paris, 1542-1556.

7 pts in 1 v. 8vo VERY SCARCE.

### 3808. — Latin, 1543.

C. Plinii Secvndi Historiae Mundi Libri xxxvij Ex Postrema ad Vetustos Codices Collatione Cvm Annotationibus, Et Indice. Parisiis Apud Andream Bertholin, in via Diui Iacobi è regione Mathurini- rum sub signo cornæ, & apud Guillermum Roland in vico longobardorum, 1543.

2<sup>o</sup>: A-C<sup>6</sup> a-z<sup>6</sup> A-Z<sup>6</sup> Aa-Kk<sup>6</sup> aaa-ccc<sup>6</sup> ddd<sup>8</sup> a- k<sup>6</sup> 1<sup>8</sup> A-B<sup>6</sup> C<sup>8</sup>; ??ℓ.; [18]ℓ., 671 p., [20]ℓ., [88]ℓ. Large printer's device on title-page, large ornamental woodcut initials. COLOPHON: Parisiis Excudebat Michaël Fezandat, Monso Augusto, Anno M. XLIII.



## PLINIUS SECUNDUS: LATIN EDITIONS

VERY SCARCE. Beautiful printed edition of this classic of natural history. This Paris edition is based on that of Basle 1535 with Gelenius' annotations; Erasmus' preface to Stanilaus Thurzo dated 1525 is reproduced. The index in by J. Cramer.

REFERENCES: Adams, *Cambridge Books*, 1967: P-1568.  
• NUC: 461, 671-90 [NP 0424239-40].

### 3809. — Latin, 1543.

Liber II C. Plinii De Myndi Historia, cum commentariis Iacobi Milichii, diligenter conscriptis & recognitis. Cum Indice in fine adiecto ... Francoforti, Ex officina P. Brubachij, Anno M.D.XLIII.

4°: 210 numb.ℓ., 6ℓ. diagsr.

VERY SCARCE. Includes at the end Jacobus Milich's *Oratio de Dignitate Astrologiae*.

REFERENCES: NUC: 461, 671-90 [NP 0424237].

### 3810. — Latin, 1545.

Plinii Secvndi Historiæ Mndi Libri XXXVII, denovo ad vetvstos codices collati, et plurimis locis emendati, ut patet ex adjunctis annotationibus. In calce operis copiosus index est additus. Basileæ, In officina Frobeniana, 1545.

2°: A-C<sup>6</sup> a-z<sup>6</sup> A-Z<sup>6</sup> Aa-Kk<sup>6</sup>; aaa-ccc<sup>6</sup>; a-k<sup>6</sup> 1<sup>8</sup> A-B<sup>6</sup> C<sup>8</sup>; ??ℓ.; [18]ℓ., 671 p., [30], [86]ℓ. Printer's device on the title page and verso of the last leaf. COLOPHON: Basileae per Hieronymvm Frobenivm & Nicolaum Episcopium, mense Augusto. Anno M.D.XLV.

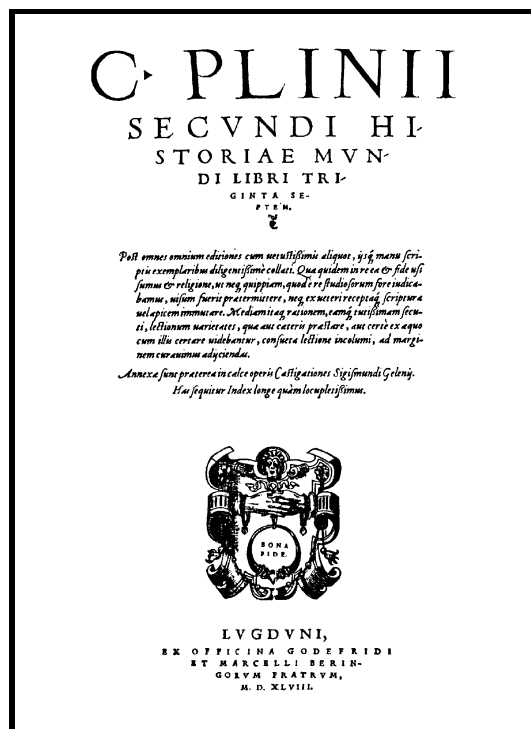
VERY SCARCE. SEE NUC FOR SOME MORE  
DETAIL ON THIS EDITION.

REFERENCES: NUC: 461, 671-90 [NP 0424245-6].

### 3811. — Latin, 1548.

C. Plinii | Secvndi Hi- | storiæ Mvn- | di  
Libri Tri- | ginta Se- | ptem. | [ornament] |  
Post omnes omnium editiones cum uetustissimis  
alioquot, ijsq; manuscri- | ptis exemplaribus  
diligentiſimè collati. Qua quidem in re ea & fide  
usi | sumus & religione, ut neq; quippiam, quodè  
studiosorum fore iudica- | bamus, uisum fuerit  
prætermittere, neq; ex ueteri receptaq; scriptura  
| uel apicem immutare. Mediam itaq; rationem,  
eamq; tutiſſimam secu- | ti, lectionum uarietates,  
quæ aut caeteris præstare, aut certè ex æquo  
| cum illis certare uidebantur, consueta lectione  
incolumi, ad margi- | nem curauimus adijciendas. |  
Annexa sunt præterea in calce operis Castigationes  
Sigismundi Gelenii. | Hæsequitur Index longe  
quàm lucupleiæimus. | [ornament] | Lvgdvni, | Ex  
Officina Godefridi | Et Marcelli Berin- | gorm  
Fratrvm, | M. D. XLVIII.

2°: [32], 976 col., 81ℓ. Printer's mark on the title page, title page of index (leaf 18) and verso of leaf 81. Two columns to the page.



HISTORIAE MVNDI, 1548

VERY SCARCE. Contains the preface of Erasmus, from his 1525 edition.

Historiae Mundi Libri Triginta Septem, Post omnes omnium editiones cum vetustissimis aliquot iisque manu scriptis exemplaribus diligentissimè collati...Annexae sunt praeterea in calce operis Castigationes Sigismundi Gelenii. Has sequitur Index longe quàm lucupletissimus. Woodcut printer's device on title. 34 p.l. (the last a blank), 976 cols, [64] leaves. Folio, 18th cent. mottled sheep (some scuff marks & rubbing), flat spine gilt, red morocco lettering piece on spine. Lyon: G. & M. Beringen, 1548.

First Beringen edition, and a nice copy, of Pliny's encyclopedia of all the knowledge of the ancient world. "It comprises thirty-seven books dealing with mathematics and physics, geography and astronomy, medicine and zoology, anthropology and physiology, philosophy and history, agriculture and mineralogy, the arts and letters." *Printing & the Mind of Man* 5(1st ed.: Venice, 1469). This edition is based on Erasmus' great edition issued by Froben in 1525. It includes Erasmus' dedicatory preface, the Castigationes of Sigismund Gelen (1497-1554), and an extensive index based on that of Joannes Camers (i.e. Giovanni Ricucci Vellini) who died in 1546.

REFERENCES: Adams, *Cambridge Books*, 1967: P-1571.  
• Baudrier, *Bibliographie Lyonnaise*, 1895: 3, 46. • Mortimer *French Books*: no. 437. • NUC: 461, 671-90 [NP 0424249]. • STC: 357. • Van der Haeghen, F.R., *Bibliotheca Erasmiana*, Bruxelles, 1897-1950: [no copy listed].

**3812. — Latin, 1549.**

Plinii Secundi historiae mundi Libri | XXXVII. Denovo Ad Vetustos Codices Collati, Et Plurimis locis emendati, ut patet ex adiunctis iterumque auctis | Sigismundi Gelenii Annotationibus. | In calce operis copiosus index est additus. | [Printer's device] | Basileae, Apud Hier. Frobenium | Et Nic. Episcopium | An. M D LXIX.

2°: A-C<sup>6</sup> a-z<sup>6</sup> A-Z<sup>6</sup> Aa-Kk<sup>6</sup> aaa-eee<sup>6</sup> a-i<sup>6</sup> k<sup>8</sup> A-C<sup>6</sup>; ??ℓ.; [34], 671, [58], [139] p., printer's device on the title page, many woodcuts throughout. Printer's name from the colophon. PAGE SIZE: 376 x 244 mm.

VERY SCARCE. Reimpression of the 1545 edition with introductory letter dated 1525 by Erasmus to Turzo.

REFERENCES: LKG: III 3. • NUC: 461, 671-90 [NP 0424251-6].

**3813. — Latin, 1551.**

C. Plinii Secundi Historiae naturalis liber secundus. Parisiis: Ex officina Prigentii Caluarini ... , 1551.

4°: A-K<sup>4</sup>; 40ℓ.; no pagination or foliation. Printer's device (Silvestre 137) on title page.

VERY SCARCE. Historiae naturalis book two only.

Des Vosges, Antoine. // Calvarin, Prigent, printer.

**3814. — Latin, 1553.**

C. Plinii Secundi Historiae mundi libri XXXVII majore quam hactenus unquam, studio, fide, religione emendati, adiectis ad marginem succinctis, quibusdam castigatiunculis una cum indice totius operis copiosissimo. Lugduni, Apud Ioannem Frellonivm. 1553.

3 parts in one vols. 2°: A<sup>2</sup>-A<sup>4</sup> B-C<sup>4</sup> a-z<sup>5</sup> A-Z<sup>5</sup> AA-ZZ<sup>4</sup> p<sup>2</sup> m<sup>4</sup>; ??ℓ.; [34], 679, [236] p. Title page vignette.

VERY SCARCE. Part 1 is the Naturalis Historia ([18] p.l., 679 p.). Part 2 are Gelenius' Annotationes (29 unnumb. l.) and the index, with the following title: In C. Plinii Secundi naturalem historiam historiam index copiosissimus. Lugduni, Apud J. Frellonium, 1553.

REFERENCES: NUC: 461, 671-90 [NP 0424260].

**3815. — Latin, 1553.**

C. Plinii Liber secundus de Mundi historia, cum commentariis Iacobi Milichii, diligenter conscriptis, & postremo ab autore recognitis, & multis in locis auctis. Anno Domini 1552 Vna cum indicibus utili & necessario. Francofurti, apud P. Brubachivm, 1553.

2°: [20], 459 p., illus., folding table, diagms. VERY SCARCE.

REFERENCES: NUC: 461, 671-90 [NP 0424258].

**3816. — Latin, 1554.**

Historiae mundi libri XXXVII. Denuo ad vetustos codices collati, et plurimis locis iam iterum post cunctorum editiones emendati, adjunctis Sigismundi Gelenii annotationibus. In calce operis

nouus Index est additus, non minore diligentia ac labore, quam opus ipsum repurgatus. Basileae, [Per Hier. Frobenium, Et Nic. Episcopium] 1554.

2°: A-C<sup>6</sup> a-z<sup>6</sup> A-Z<sup>6</sup> Aa-Ii<sup>6</sup> χ<sup>2</sup> aaa-eee<sup>6</sup>, a-c<sup>6</sup>, f-n<sup>6</sup>; ??ℓ.; [36], 663, [216] p. Decorated initials. Printer device on title page and verso of final page. Author's name appears at head of title.

VERY SCARCE. Edited by Sigismundi Gelen [1497–1554]. The "Index" by Johann Herold [1511–1570?]. Herold's prefatory letter and colophon dated 1555. Froben's printer device on the title and verso of last leave. The "Annotations" and "Index" each have separate paging.

REFERENCES: Brunet: 4, 716. • NUC: 461, 671-90 [NP 0424262].

**3817. — Latin, 1559.**

Sommaire des singulariter de Plinie; extrait des seize premiers livres de sa Naturelle histoire [4e ed.] P., 1559.

ff. 50. Vign.

VERY SCARCE. Printed in cursive characters.

**3818. — Latin, 1559.**

C. Plinii Secvndi natvralis historiae libri trigintaseptem, a Paulo Manutio multis in locis emendati. Cratigationes Sigismvndi Gelenii. Index plenissimvs. Venetiis, Apud Paulum Manutium, Aldi f., 1559.

2°: 14 p.l., [26] p., 976 numb. columns, 36 p., 1ℓ., [129] p. Title vignette (printer's device). The index has a special title page: Index in Cl. Plinii Secvndi Natvralem historiam, ad exemplum Ioan. Camertis, mutatis quibusdam quæ ad hanc editionem non congruebant, nonnullis etiam adiectis. Venetiis, Apud P. Manutium, Aldi f., 1558.

VERY SCARCE. Edited by Paulo Manuzio [1512–1574], with commentary by Sigmund Gelen [1497–1554] and the index by Joannes Camers (i.e., Giovanni Ricuzzi Vellini) [1448–1546].

REFERENCES: NUC: 461, 671-90 [NP 0424265].

**3819. — Latin, 1559.**

Index in C. Plinii Secvndi Natvralem historiam, ad exemplum Ioan. Camertis, mutatis quibusdam quæ ad hanc editionem non congruebant, nonnullis etiam adiectis. Venetiis, 1558 [1559]. apud Paulum Manutium, Aldi f.

[131] p. 30 cm. (fol.)

VERY SCARCE. Signatures: A-L6. Aldine anchor on t.-p.

**3820. — Latin, 1560.**

Historiae mvndi tomus primus [-tertius] Cum indice hac postrema manuditissimo facto. Lvgdvni, Apud Haeredes Jacobi Iunti, 1560.

3 vols. VERY SCARCE.

REFERENCES: NUC: 461, 671-90 [NP 0424266].

## PLINIUS SECUNDUS: LATIN EDITIONS

### 3821. — Latin, 1560-2.

Historiae mvndi libri XXXVII. Vetustissimorum codicum collatione maiore quàm ante hac studio, fide, & religione a vitiis quibus multiplici olim impressione contaminati fuerat, vindicati, atq; in quatuor tomos dispertiti, quoru hic primvs octo libros complectitur. Cum indice hac postrema manu ditissimo ac castigatissimo facto. Lugduni, Apud haeredes Jacobi Iuntae, 1560-2.

4 vols. 16°.

VERY SCARCE. At head of title: C. Plinii secvndi. Printer's devices; head- and tailpieces; initials; side notes. Vol. 1 is dated 1561; v. 2 has title: ... Tomus secundus. Quo libri decem, ab octauo ad decimumnonum vsque, continentur. Cum indice hac postrema manu ditissimo facto. Lvgdvni, Apud haeredes Jacobi Iuntae, M.D.LXII; v. 3 has title: ... Tomus terius. Quo libri nouem, a decimo octauo ad vicesimumoctauum vsque, continentur. Cum indice hac postrema manu ditissimo facto. Lvgdvni, Apud haeredes Jacobi Iuntae, M.D.LX.

REFERENCES: NUC: 461, 671-90 [NP 0424268].

### 3822. — Latin, 1561.

Historiae mundi libri XXXVIII, vetustissimorum codicum collatione maiore quàm antehac studio fide & religione à vitiis quibus multiplici olim impressione contaminati fuerant vindicati ... Vnà cum indice totius operis copiosissimo, non poenitenda rursus accessione locupletate, locisque propemodum innumeris, quæ cum autoris aensis non satis congruebant, quàm accuratissimè restituito. Lvgdvni. Apud Ioannem Frellonium, M.D. LXI.

[36], 679, [257] p. VERY SCARCE.

REFERENCES: NUC: 461, 671-90 [NP 0424267].

### 3823. — Latin, 1563.

C. Plinii Secvndi Historiæ mvndi libri XXXVII. maiore, quàm hactenus vnquam, studio vindicati Lvgdvni, Apud Ioannem Frellonium, 1563.

2°: A-C<sup>6</sup> a-z<sup>8</sup> A-S<sup>8</sup> T-V<sup>6</sup> X-Z<sup>8</sup> AA-BB<sup>6</sup> a-l<sup>8</sup> m<sup>6</sup> (m6 blank); 487ℓ.; [36], 679, [257] p. The Index has a special title page. PAGE SIZE: 360 x 240 mm.

VERY SCARCE. With Sigmund Gelen's annotations (quires X-BB) and preface by Joannes Nicolaus Victorius.

REFERENCES: NUC: 461, 671-90 [NP 0424272].

### 3824. — Latin, 1563.

C. Plinii | Secvndi Histo- | riae Mvndi Libri | XXXVII. | Maiore, quàm hactenus vnquam, studio fide, feligione à | vitiss quibus multiplici olim impressione contaminati | suerant, vindicati. | Adiectis ad marginem non minus doctis quàm succinctis Castigatiunculis, partim è ve- | tustißimorum codicum collatione erutis,



HISTORIAE MVNDI, 1563

partim grauissimorum scriptorum autoritate, | doctißimorumque hominum iudicio aptè appositis: quas ad syncerioris lectionis inda- | gtionem, velut in tenebris accense face, non parum lucis cofidimus allaturas. | Vnà cum Indice totiss operis copiosissimo, non poenitenda rursus accessione locupletato, | locisque propemodum innumeris, quæ cum autoris sensis non satis | congruebant, quàm accuratissimè restituito. | [Printer's device] | Lvgdvni, | Apud Antonium Vincentium, | M. D. LXIII. | Cum priuilegio Regis.

2°: [34], 679, [128] p. Index has separate title page. Printer's device on title pages; ornamental initials. COLOPHON: Lvgdvni, excudebat Symphorianus Barbier.

VERY SCARCE. Preface by Joannes Nicolaus Victorius and annotations by Sigmund Gelen. Reissue of the 1561 edition.

REFERENCES: Mortimer French Books: no. 438. • NUC: 461, 671-90 [NP 0424275].

### 3825. — Latin, 1563.

C. Plinij Liber Secvndvs, de Mvndi Historia, cvm Commetntariis Iacobi Milichii, diligenter conscriptis, & postremò ab autore, ante discessum suum ex hac uita, recognitis, & multis in locis auctis Vnà cum Indice utili & copioso. Francoforti, Apud Petrum Brubachium, Anno Domini, 1563.

4°: AAA-BBB<sup>4</sup> CCC<sup>6</sup> A-Z<sup>4</sup> a-z<sup>4</sup> Aa-Qq<sup>4</sup> Rr<sup>2</sup>; 264ℓ.; [28], 491 (i.e., 499) p., illus., diags. Title vignette (printer's device). Pages 457-499 numbered 451-465 and 464-491. VERY SCARCE.

REFERENCES: NUC: 461, 671-90 [NP 0424270].

**3826. — Latin, 1568.**

Historiae Mundi Libri Triginta. Lugduni, 1568.

REFERENCES: NUC: 461, 671-90 [NP 0424276].

**3827. — Latin, 1571.**

C. Plinii Secvndi Natvralis Historiae Libri Triginta Septem. Nunc demum e.: Aldinis archetypis pristino suo nitori accurate restituti: affixa suis locis Sigismundi Gelenij castigatione His accessit traditarum à Plinio rerum index locupletissimus. Venetiis, Apvd Hieronymvm Scotvm, 1571.

[24], 422, [128] p. The index ([128] p.) has a special title page. Printer's device on the title page. VERY SCARCE.

REFERENCES: NUC: 461, 671-90 [NP 0424278].

**3828. — Latin, 1573.**

Liber Secundus, de Mundi Historia, cum erudito Commentario Iacobi Milichii aucto & amendis repurgato: opera & studio Barthol, Schonbornii [COLOPHON:] Lipsiae, Imprimebat Iohannes Steinman typis Vogelianis, 1573.

636, [12] p., diags., one folding table.

VERY SCARCE. Edited by Jakob Milich [1501–1559].

REFERENCES: NUC: 461, 671-90 [NP 0424279].

**3829. — Latin, 1582.**

Historia mundi naturalis C. Plinii Secundi: hoc est: amplissimum, lucidissimum, perspicacissimumque, nec non plane mirandum totius universi, rerumque naturalium speculum: ... in libros XXXVII distributa, vivisque imaginibus illustrata, atque vero proprioque naturæ nitori labore impensisque Sigismundi Feyerabeni hoc nouo ... His breves eruditaque in margine doctissimorum virorum castigationes: Sigismundi Gelenij quoque perspicuæ atque perutiles animaduersiones accesserunt. Cum indice rerum & verborum locupletissimo. Francoforti ad Moenum, ex Officina Martini Lechleriimpensis Sigismundi Feyerabendij, 1582.

2°: )(4 \*4 A-B<sup>6</sup> C-Z<sup>4</sup> a-z<sup>4</sup> Aa-Zz<sup>4</sup> Aaa<sup>4</sup> Bbb<sup>6</sup> A-Z<sup>4</sup> ( )(4, Bbb<sup>6</sup> and 2Z<sup>4</sup> blank); [36], 528, [52], [92] (index copiosissimus) p., red and black title, 50 woodcuts. Printer's device on the title page. Index has a special title page. COLOPHON: Francoforti ad Moenvm ex officina Martini Lechleri impensis Sigismundi Feyerabendij. M. D. LXXXII.

VERY SCARCE. Edited by Sigmund Gelen [1497–1554]. The fine woodcuts were done by Jost Amman and Hans Burgkmair, among others.

Historia mundi naturalis [] in libros XXXVII. Distributa, vivisque imaginibus illustrata [] Cum Indice rerum & verborum locupletissimo.

Francoforti ad Moenum [Francfort], (Martin Lechler pour Sigismund Feyerabend), 1582.

2 tomes en 1 vol. in-f°: [36]-528-[51], [183] pp. (découpage marginale comblée au titre lég. défraîchi, un bois à la p. 102 décoloré, 2 perforations avec traces de laque rouge, très faible mouill. marginale, annot. mss aux table et garde inf.).

Rel. de l'époque: pleine peau de truie sur ais de bois, plats sertis de filets et roulettes à froid et ornés de plaques centrales (la Justice entourée des Quatre Vertus et la Fortune entourée du quadrivium), dos à nerfs, deux fermoirs de laiton, tranches jasp. de rouge (lég. frottée, très faibles us. au coins doublés à l'intérieur, gardes manquantes).

Une des plus belles éditions de cette traditionnelle introduction générale à l'histoire naturelle. Dans cet ouvrage encyclopédique, Pline (c. 23-79) donne une description physique du monde en général et traite plus particulièrement de géographie, d'ethnographie, physiologie, zoologie, botanique, minéralogie, etc. Notre édition, ornée de 50 bois pittoresques, grands et petits, gravés d'après Hans Burgkmair, Josse Amman e.a., est enrichie d'importantes tables et comporte deux titres avec grandes marques typographiques différentes. Adams P-1579; manque à Machiels; Nissen, ZBI, 3191.

REFERENCES: LKG: III 3. • NUC: 461, 671-90 [NP 0424281-5].

**3830. — Latin, 1582.**

Historia mundi naturalis. Frankfurt, Lechler für Feyerabend, 1582.

2 in 1 Bd. Fol. Mit 2 Druckermarken, Wappen - und 50 Texholzschnitten von J. Amman, H. Weiditz u. a. 18 Bl. (4. und 18. weiß), 528 S., 26, 92 Bl.

VERY SCARCE. VD 16, P 3550. Adams P 1579. Wellcome I, 5122. Amman 7 c. Musper L 216. - Sehr schön illustrierte Ausgabe der klassischen naturwissenschaftlichen Enzyklopädie. - Titel mit kleineren Schäden, angestaubt und fleckig, sonst sauber und gut erhalten.

**3831. — Latin, 1582.**

C. Plinii Secvndi Historiæ mvndi libri XXXVII, a Sigismvndo Gelenio, diligenter castigati Accesservnt ad marginem variæ lectiones ac notæ ex Fer. Pintiani Adr. Tvrnebi, Ioa. Scalgeri, Ivati Lipsi, & aliorum virorum scriptis [Lvgdvni] Apud Petrum Santandreanum, 1582.

A-C<sup>6</sup> a-z<sup>8</sup> A-S<sup>8</sup> T-V<sup>6</sup> X-Z<sup>8</sup> a-l<sup>8</sup> m<sup>4</sup>; ??ℓ.; [36], 679, [231] p. The index by Johann Camers has a special title page.

VERY SCARCE. With a preface by Joannes Nicolaus Victorius. Edited by Sigismund Gelen.

REFERENCES: NUC: 461, 671-90 [NP 0424286].

**3832. — Latin, 1583.**

Historia Mundi Naturalis. Frankfurt, 1583.

# PLINIUS SECUNDUS: LATIN EDITIONS

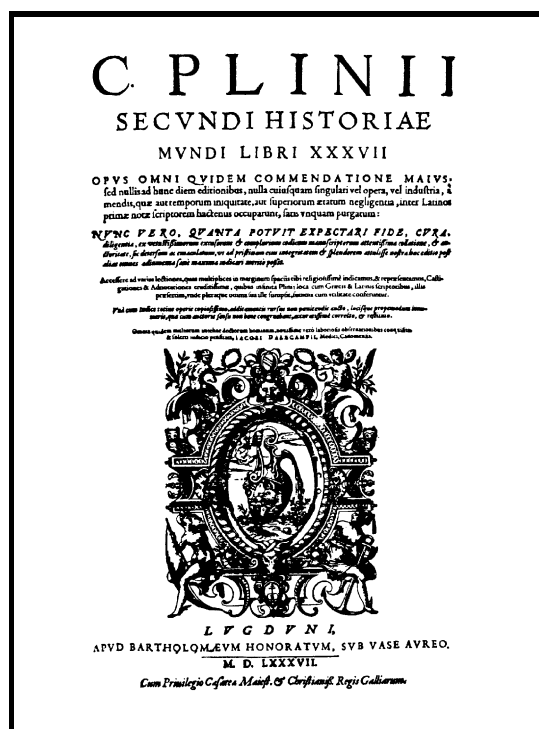
REFERENCES: NUC: 461, 671-90 [NP 0424287].

## 3833. — Latin, 1586.

C. Plinii Secvndi Historiae Mvndi Libri XXXVII. Opvs nvnc ex vetustissimorum excusorum & complurium codicum manuscriptorum attentissima collatione, & auctoritate Accessere ad varias loctiones castigationes & adnotationes Vnà cum indice Omnia quides nouissimè laboriosis obseruationibus conquisits, & nolerti iudicio pensitata. Iacobi Delecampii. Lvgdvni, Apud B. Honoratvm, 1586.

2°: \*-\*\*\*6 a-z<sup>6</sup> Aa-Zz<sup>6</sup> Aaa-Zzz<sup>6</sup> AAaa-EEee<sup>6</sup> FFff<sup>8</sup> α-γ<sup>8</sup> a-k<sup>8</sup> l<sup>6</sup>; [46], [2], 901, [2], [218] p. The index has a separate title page. The "Annotations" (p. [905-952]) have the caption title: Sigismvndi Gelenii Castigationes ex Vetvstorvm archetyporvm collatione" VERY SCARCE.

REFERENCES: NUC: 461, 671-90 [NP 0424289].



HISTORIAE MVNDI, 1587

## 3834. — Latin, 1587.

C. Plinii Secvndi Historiae mvndi libri XXXVII. Opvs omni quidem commendatione maius, sed nullis ad hunc diem editionibus, nulla cuiusquam singulari vel opera, vel industria, a mendis, quae aut temporum iniquitate, aut superiorum aetatum negligentia, inter latinos primae notae scriptorem hactenus occuparunt, satis vnquam purga-

tum: nvnc vero, qvanta potvit expectari fide, cvra, diligentia, ex vetustissimorum excusorum & complurium codicum manuscriptorum attentissima collatione, & auctoritate, sic detersum ac emaculatum, vt as pristinam eius integritatem & splendorem attulisse nostra haec editio post alias omnes adiumenta sanè maxima iudicari ceritò possit ... Omnia quidem multorum antehac doctorum hominum, nouissimè verò laboriosis obseruationibus conquisite, & solerti iudicio pensitata, Iacobi Dalecampii, medici, cadomensis. Lvgdvni, apvd Bartholomaevm Honoratvm, svb Vase Avreo. M.D.LXXXVII. Cum priuilegio caesarea maiest. & caristianiss. regis galliarum.

2°: \*-\*\*\*6 a-z<sup>6</sup> Aa-Zz<sup>6</sup> Aaa-Zzz<sup>6</sup> AAaa-EEee<sup>6</sup> FFff<sup>8</sup> α-γ<sup>8</sup> a-k<sup>8</sup> l<sup>6</sup> (Qq2 missigned Qq; \*\*\*6, FFff8, [2nd]6, blank); 586ℓ.; [46], 901, [218] p. Printer's device on the title page. Index has a special title page., with printer's device and imprint dated 1586.

VERY SCARCE. Annotations by Sigmund Gelen: leaves [1-24] at end. Index (leaves [25-109] has special t.-p. with publisher's device & imprint dated 1586.

REFERENCES: Baudrier, *Bibliographie Lyonnaise*, 1895: 4, p. 156. • Mortimer *French Books*: no. 439. • NUC: 461, 671-90 [NP 0424292].

## 3835. — Latin, 1593.

Historiae mundi libri XXXVII. A Sigismundo Gelenio summa fide castigati, veterumque tum excusorum tum manuscriptorum codicum attentissima collatione restitui. Accessere ad marginem variae lectiones, ex Pintiani, Turnebi, Lipsii, aliorumque doctissimorum ... scriptis fideliter exceptae ... [Genevae] Apud Jacobum Stoer, 1593.

3 vols.

VERY SCARCE. Based on the editon by J. N. Victorius (whose preface is here reprinted) published in Lyons in 1553 and that by J. Dalechamps published in Lyons in 1587. Contents.—t. 1. books 1-11.—t. 2. books 12-27.—t. 3. books 28-37.

Dalechamps, Jacques, 1513-1588. // Gelen, Sigismund, 1497-1554. // Lipsius, Justus, 1547-1606. // Nunez de Guzman, Fernand d. 1552? // Turnebe, Adrien, 1512-1565. // Victorius, Joannes Nicolaus.

Jacques Dalechamps. (BORN: Caen, France, 1513; DIED: Lyons, France, 1588) *French physician & botanist*. Dalechamps was a well-learned botanist. In 1552, he settled at Lyons, where he opened a successful medical practice. He formed a project to unite in a single work all previous acquisitions in botanical science, and after expending thirty years on it, left the completion of it to Desmoulins. The finished product was a "General History of Plants" (Paris, 1586), a work of great merit containing 2731 figures. He also published several medical treatises.

Justus Lipsius. (BORN: Isque, near Brussels, Belgium, 1547; DIED: Louvain, France, 1606) *Belgian scholar, critic & philologist*. Lipsius was educated in Brussels and Louvain. At the age of 19 he wrote *Variae Lectiones* (1565), which was favorably received. In 1572, he was appointed professor of history at the University of Jena, and from 1579 to 1592 he occupied a similar chair at Leyden. Around 1590

**Fernand Nunez de Guzman.** (BORN:           ; DIED:           ).

**Adrien Turnèbe.** (BORN: Les Andelys, Normandy, France, 1512; DIED: Paris, France, 12 June 1565) *French classical scholar.* At the age of 12, Turnebe went to Paris and attracted attention by his great abilities. After holding a post of professor of belles-lettres in the University of Toulouse, he returned to Paris 1547 as professor of Greek at the Collège Royale. In 1552, he was intrusted with the printing of the Greek books at the royal press. His works chiefly consisted of commentaries and translations of Greek and Latin authors.

**Joannes Nicolaus Victorius.** (BORN:           ; DIED:           ).

REFERENCES: NUC: 461, 671-90 [NP 0424294].  
**(Dalechamps)** Feller, *Biographie Universelle*, 1851. • Hirsch, *Biographisches Lexikon*, 1884-8. • Nouvelle *Biographie Générale* (Hoefler). • Thomas, *Dictionary of Biography*, 1884: 709. **(Lipsius)** Aa, *Biographisch Woordenboek*, 1852-78. • ADB. • BAB: 413, 188-406. • DBA: I 771, 82-97. • Jöcher, *Gelehrten-Lexikon*, 1750-51. • Kobus, *Biographisch Woordenboek*, 1886. • Miræus, *Vita Justii Lipsii*, 1606. • NDB. • Nisard, C., *Le Triumvirat littéraire au XVI<sup>e</sup> Siècle*, *J. Lipse, Joseph Scaliger et I Casubon*, 1852. • Scribani, *Justi Lipsii Defensio*, 1877. • Thomas, *Dictionary of Biography*, 1884: 1437. • Van Even, E., *J. Lipsius als Vaderlander*, 1849. • WBI. **(Nunez de Guzman)** **(Turnèbe)** *Encyclopaedia Britannica*, 11th edition: 27, 474. • Nouvelle *Biographie Générale* (Hoefler). **(Victorius)**

C. Plinii Secvndi Historiae mvndi libri XXXVII  
... Omnia ... laboriosis obseruationibus conquisita,  
& solerti iudicio pensitata, Iacobi Dalecampii  
... Accessere deniqve annotationes viri cvivsdam  
nobilis ... qui opus etiam totum diligentia magna &  
recognovit & castigauit ... Francofortia ad Moen.,  
Impensis Iohan. Feverabendt. 1599.

2°: );(6 \*\*6 \*\*\*6 A-Eeee<sup>6</sup> Ffff<sup>8</sup> (:)-(:)(:)(:)(:)<sup>8</sup> a-l<sup>6</sup>  
m<sup>8</sup> (m8 blank); ??ℓ.; [36], 904, [194] p. diagrms., tables.

VERY SCARCE. Edited either by Janus Gruterus [1560-1627] or Johann Matthäus Wacker von Wackenfels [d. 1619].

Delechamps, Jacques [1513-1588]. // Gelen, Sig-  
mund [1497-1554].

REFERENCES: NUC: **461**, 671-90 [NP 0424297].

C. Plinij Secundi Historiae mundi libri xxxvii.  
Editio altera. [Geneva]: Apud Iacobum Stoer, 1601.

3 vols. [VOL 1] 16°: A-F8, G4, a-z8, aa-rr8 (ff1-8 missed g1-8), ss4, Tt-Zz8, AAa-CCc8 (CCc8 blank); ??ℓ; no pagination or foliation. Title page in red and black with vignette.; [VOL 2] 16°: A-Z8, AA-ZZ8, AAa-GGg8, HHh4 (HHh4 blank); ??ℓ; no pagination or foliation. Title page vignette.; [VOL 3] 16°: A-Z8, AA-ZZ8, AAa-PPp8 (PPp 7-8 blank); ??ℓ; no pagination or foliation. Title page vignette.

VERY SCARCE. Based on the edition by J. N. Victorius (G. N. Vettori), whose preface is here reprinted, published in Lyons in 1553, and that of Dalechamps, Lyons, 1587. First edition, 1593.

Gelen, Sigmund, 1497-1554. // Nunez de Guzman, Fernando, d. 1552? // Turnebe, Adrien, 1512-1565. // Lipsius, Justus, 1547-1606. Victorius, Joannes Nicolaus. // Dalechamps, Jacques, 1513-1588.

**3838. 1608:** *Historiæ mundi libri XXXVII. Cvm castigationibus et adnotationibus doctiss. & variis præterea lectionibus ex mss. compluribus ad oram paginarum accurate indicatis. Ex nouissima & laboriosissima editione Iacobi Dalechampi, medici, Cadomensis. Cum indice duplici, vtroque locupletissimo. Accedunt iam primum Pavli Cigalini comensis prælectiones duæ eruditiss. Vna de vera patriæ nostri Plinii: altera de fide & auctoritate ipsius. Frankfurt. C. Mannius and heirs of J. Aubrius, 1608.*

8°: \*8 A-508 2A-2M8 (M7-8 blank), pag.: [16]-1688-[192]. With a large wood cut printers mark on the title page and final page. Two vols.

VERY SCARCE. Graesse V, 340

Unillustrated edition of Pliny the Elder's classic encyclopedia of the knowledge of the ancient world, of which the edito princeps was published in Venice in 1469: 'It comprises thirty-seven books dealing with mathematics and physics, geography and astronomy, medicine and zoology, anthropology and physiology, philosophy and history, agriculture and mineralogy, the arts and letters.' [Printing and the Mind of Man, nr. 5]. Although Pliny gained little interest as a literary author, his *Historia mundi* was appreciated highly as the earliest known book on natural history. This edition was edited by Jacob Dalecamp.

**3839. — Latin, 1615.**

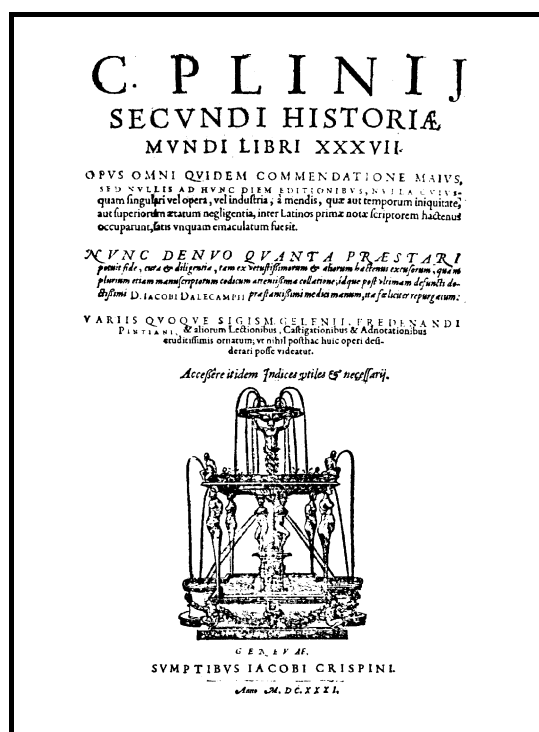
Historiae mundi libri xxxvii; idque post ultimam  
defuncti doctissimi J. Dalecampii praestantissimi  
medici manum ita feliciter repurgatum. Coloniae  
Allobrogum. 1615.

2°: [36], 32, 746, [168] p.

VERY SCARCE. Pintianus, Ferdinand. *Observationes*, pp. (8), 114. -Rhenanus, Beatus. *Annotationes*. Selstadt. 1531. pp. 29.

**3840. —** Latin, 1631.

C. Plinij | Secvndi Historiæ | Mvndi Libri  
XXXVII. | Opvs Omni Qvidem Commendatione  
Maivs, | Sed Nvllis Ad Hvnc Diem Editionibvs.  
Nvila Cvivs- | quam singulari vel industria,  
à mendis, quæ aut temporum iniquitate, |  
aut superiorum ætatum negligentia, inter Latino  
primæ notæ scriptorem hactenus | occuparunt,  
satis vnquam emaculatum suesit. | Nvnc Denovo  
Qvanta Præstari | potuit side, euta & diligentia,  
tam ex vetustissimorum & aliorum hactenus  
excusorum, quam | plurium etiam manuscriptorum  
codicum attentissima collatione; idque post vltimam  
defuncts de- | ctissimi D. Iacobi Dalecampii  
præstantissimi medici manum, ita sceliciter repurg  
atum. | Variis Qvoqve Sigism Gelenii Fredenandi  
| pintiani, & aliorum Lectionibus, Castigationibus  
& Adnotationibus | eruditissimis ornatum; vt nihil



HISTORIAE MVNDI LIBRI XXXVII, 1631

posthac huic operi desi- | derari posse videatur.  
| Acceßere itidem Indices vtilis & necessarij. |  
| [ornament] | Genevæ, | Svmptibvs Iacobi Crispini.  
| [rule] | Anno M. DC. XXXI.

2°: [36], 746, [153], [8], 173 p. Title page vignette.  
Head and tail pieces and initials. Text in double  
columns.

VERY SCARCE. Gelen, Sigmund, 1497-1554. //  
Nunez de Guzman, Fernando, d. 1552? // Dalechamps,  
Jacques, 1513-1588, ed.

### 3841. — Latin, 1635.

[Within a series of ruled boxes:] C. Plinii Secvndi |  
Natvralis | Historiæ, | Tomus Primus. [-Tertius.]  
| [ornament] | Lugd. Batavorvm | Ex Officina  
Elzeviriana, | [rule] | cIs Is cxxxv.

3 vols. [VOL 1] 8°: [22], 654, [18] p., engraved title  
page, woodcut portrait of Pliny. [VOL 2] 8°: 631, [16] p.  
[VOL 3] 8°: 582 p. + index. PAGE SIZE: 130 x 80 mm.

VERY SCARCE. Edited by Joannes de Laet [1593-  
1649]. Published by the legendary House of Elzevir, this  
edition is considered to be "one of the masterpieces of  
this printer."

The only edition of Pliny's Natural History issued  
from the Elzevir press, and according to Willems (no.  
428), one of their masterpieces.

Vol. 1 has engraved t.-p.; v. 2-3 have title ...  
Natvralis Historiae.

Historiae naturalis libri XXXVII. Illustrated t. p.,

engraved by Duysend, in v. 1. Printer's device on t. p.  
of v. 2-3. Circular woodcut port. facing p. 1 of v. 1.  
Intials, headpieces. "Variae lectiones" and index at the  
end of each volume. Edited by J. de Laet. "Une des plus  
belles productions des presses d'Elzevier" (Graesse) See  
also Brunet.

Laet, Joannes de, 1593-1649.

REFERENCES: NUC.

### 3842. — Latin, 1668.

C. Plinii Secvndi Naturalis historiae, tomus primus  
[-tertius] Cum commentariis & adnotationibus  
Hermolai Barbari, Pintiani, Rhenani, Gelenii,  
Dalechampii, Scaligeri, Salmasii, Is. Vossii, &  
variorum. Accedunt praeterea variae lectiones ex  
mss. compluribus ad oram paginarum accurate  
indicatae. Lvgdvni Batavorvm, Roterodami, apud  
Hackios, [1668-] 1669.

3 vols.

VERY SCARCE. Added t.-p., engr. Vols. 2-3 are  
dated 1668. "De C. Plinii Secvndi patria, a Paulo  
Cigalino." v. 1, p. 1-50. "De C. Plinii Secvndi fide  
et auctoritate ... ab eodem Paulo Cigalino." v. 1, p.  
51-80.

Gronovius, Joannes Fredericus, 1611-1671. //  
Cigalini, Paolo, d. 1598.

Joannes Fredericus Gronovius. (BORN: Hamburg,  
Germany, 8 September 1611; DIED: Leiden, The  
Netherlands, 28 December 1671) *German classical scholar &  
critic*. After being educated at several German universities,  
Gronovius made an extensive tour of England, France and  
Italy. In 1643 he accepted an appointment as professor of  
Rhetoric at Deventer. Then in 1658, he accepted the Greek  
Chair at Leiden. He edited several Greek and Latin works.

Paolo Cigalini. (BORN: 1528; DIED: 1598) .

[  
[ BIOGRAPHY NEEDED  
]

### 3843. — Latin, 1669.

C. Plinii Secvndi | Naturalis | Historiæ, | Tomus  
Primus. | Cum Commentariis & adnotationibus  
Hermolai | Barbari, Pintiani, Rhenani, Gelenii,  
| Dalechampii, Scaligeri, Salmasii, | Is. Vossi, &  
Variorum. | Accedunt præterea variæ Lectiones ex  
MSS. compluribus | ad oram Paginarum accurate  
indicatæ. | Item Joh. Fr. Gronovii Notarum  
Liber Singularis | ad Illustrem Virum Johannem  
Capelanum. | [vignette] | [Two lines braced on  
their right-hand side:] Lugd. Batav. | [next line:]  
Roterodami. | } | Apud Hackios, A°. 1669.

3 vols. 8°: 838 +index, 917 +index, 853 +index,  
with 3 engraved frontispieces each dated 1669. PAGE  
SIZE: 120 x 190 mm.

VERY SCARCE. According to Choulant this is one  
of the rare editions.

An excellent Variorum edition, very finely printed,  
of this great natural science classic including the  
corrections of Dalechamp, Hermolaus Barbarus, Beatus  
Rhenanus, Siegmund Ghelen and other distinguished

humanist interpreters who greatly emended the text working from newly found manuscripts. During the Middle Ages Pliny the Elder's Natural History was one of the main sources of available scientific knowledge.

REFERENCES: LKG: III 3.

**3844. — Latin, 1685.**

Caii Plinii Secundi Naturalis historiae libri XXXVII, interpretatione et notis illustravit Joannes Harduinus .... in usum Serenissimi Delphini. Parisiis, apud Franciscum Muguet, 1685.

5 vols.

VERY SCARCE. Edited by Jean Hardouin [see note below].

**Jean Hardouin.** (BORN: Quimper, Brittany, France, 1646; DIED: Paris, France, 3 September 1729) *French jesuit & classical scholar.* Hardouin acquired an early taste for literature from his father's bookshop. On his 16th birthday he was admitted into the Jesuits. He was sent to Paris to study theology. In 1683, he was appointed librarian of the Collège Louis le Grand. On the advice of Jean Garnier [1612-1681] he edited Pliny for the Delphin series, a task that required five years to complete. He wrote extensively on numismatics.

**3845. — Latin, 1723.**

Historiae naturalis libri XXXVII, Editio altera emendatior & auctior. Parisiis, typis A.-U. Coustelier, 1723.

2 v. fold. map, plates. 40 cm.

VERY SCARCE. Hardouin, Jean, 1646-1729, editor.

**3846. — Latin, 1741.**

Historiae naturalis libri XXXVII. Quos interpretatione et notis illustravit Joannes Harduinus. Ed. nova emendatior & auctior. Parisiis, Impensis Societatis [Jesu], 1741.

2 vols.

VERY SCARCE. Edited by Jean Hardouin [1646-1729]. A long index occupies vol. 2, p. [835]-1279.

REFERENCES: NUC.

**3847. — Latin, 1751.**

Caii Plinii Caecilii Secundi Opera quae supersunt omnia: ad fidem optimarum editionum diligenter expressa. Foulis ..., 1751.

348, [7] p.; 21 cm.

VERY SCARCE. Includes index.

Corte, Gottlieb, 1698-1731. // Longolius, Paul Daniel, 1704-1779. // Hearne, Thomas, 1678-1735.

**3848. — Latin, 1778-91.**

Caii Plinii | Secvndi | Naturalis | Historiae | Cvm Interpretatione Et Notis Integris | Iohannis Hardvini | Itemque | Cvm Commentariis Et Annotationibvs | Hermolai Barbari, Pintiani | Rhenani, Gelenii | Dalechampii, Scaligeri, Salmasii, | Is. Vossii L.F. Gronovii | ... | Ioh. | Georg. Frid. Franzivs | ... | [rule] | Lipsiae | Impensis Gvilielmi Gottlob Sommeri | A.C. MDCCLXXVIII.

PLINIUS SECUNDUS: LATIN EDITIONS

10 vols.

VERY SCARCE. Naturalis historiae.

Franz, Johann Georg Friedrich, 1737-1789.

**3849. — Latin, 1779.**

Caii Plinii Secundi Historiae naturalis libri XXXVII. Quos recensuit & notis illustravit G. Brotier. Paris, Typis J. Barbou, 1779.

6 vols. 12°:

VERY SCARCE. Title vignettes. Includes index. Advertisements: v. 6, final leaf.

Brotier, Gabriel, 1723-1789.

**3850. — Latin, 1783-4.**

Caii Plinii | Secundi | Historiae Naturalis | Libri XXXVII | Ex Recensione Joannis Harduini | Praemittitur Notitia Literaria | Accedit Index | Studiis Societatis Bipontinae | [ornament] | Volumen Primum [-Quintum] | [rule] | Biponti | Ex Typographia Societatis | CLbCCLXXXIV.

5 vols.

VERY SCARCE. Illustrated t. p., engraved by Weis, in v. 1.

Hardouin, Jean, 1646-1729, ed.

**3851. — Latin, 1783-4.**

Historiae Naturalis Libri XXXVII, ex recensione Joannis Harduini, praemittitur notitia accedit index Studiis Societatis Bipontinae. Editio accurata. Biponti, ex Typographia Societatis, 1783-84.

5 vols. 8°: VERY SCARCE.

REFERENCES: LKG: III 3.

**3852. — Latin, 1826.**

C. Plinii Secundi Naturalis historiae libri XXXVII. Londini: A.J. Valpy, 1826.

14 v. (5869, mxxi p.), xviii leaves of plates: map; 22 cm.

VERY SCARCE. Naturalis historiae libri XXXVII. Includes indexes.

Brotier, Gabriel, 1723-1789, ed.

**3853. — Latin, 1827.**

Caii Plinii Secundi Historiae naturalis XXXVII. Parisii: N.E. Lemaire, 1827-1832.

10 v. in 13; 22 cm.

VERY SCARCE. Includes bibliographical references and indexes.

Hardouin, Jean, 1646-1729.

**3854. — Latin, 1830.**

Caii Plinii Secundi historiae naturalis libri XXXVII. Editio stereotypa. Lipsiae: ex officina Caroli Tauchnitii, 1830.

5 v.; 14 cm. VERY SCARCE.



## PLINIUS SECUNDUS: ITALIAN EDITIONS

### 3855. — Latin, 1836.

C. Plinii Secundi Historiae naturalis libri XXXVII, quibus accessere novus index animalium, mineralium, vegetabilium synonymicus, nominumque et rerum quo ad cetera enodatio, habita alphabetici ordinis ratione, et notis gallicae editionis Ajasson de Grandsagne. Quarum auctores exstiter ad zoosophiam ut plurimum, G. Cuvier passim vero et in iis quae zoosophiae non erant, Doe, E. Dolo, ... etc. ... Lipsiae, apud Joh. Ambr. Barth, 1836-38.

9 v. in 4. 23 cm.

VERY SCARCE. "De Plinii vita et operibus", v. 1, p. [i]-xxxiii.

Cuvier, Georges, baron, 1769-1832, ed.

### 3856. — Latin, 1841.

Historiae naturalis libri xxxvii. Ed. stereotypa. Lipsiae, sumtibus et typis C. Tauchnitii, 1841.

p.8vo

VERY SCARCE. Weise, Karl Hermann, 1787-1840, ed.

### 3857. — Latin, 1851.

C. Plini Secundi Naturalis historiae libri XXXVII. -1858.

8 v. in 4; 21 cm.

VERY SCARCE. Sillig, Karl Julius, 1801-1855, ed.

### 3858. — Latin, 1851.

Excerptorum ex C. Plinii Secundi Naturalis historiae libro xxxv particula I[-III] Helmstedt, gedruckt bei J.C. Schmidt, [1851-53]

3 pt. 4to

VERY SCARCE. Elster, Johann Christian, ed. and tr.

### 3859. — Latin, 1854.

C. Plini Secundi Naturalis historiae libri XXXVII. Lipsiae, Teubner, 1854-65.

6 v. 18 cm.

VERY SCARCE. Naturalis historia. Libb. XXIII-XXXII. - v. 5. Libb. XXXIII-XXXVII. - v. 6. Indices.

Jan, Ludwig von, 1807-1869, ed.

### 3860. — Latin, 1866.

Naturalis historia. D. Detlefsen recensuit. Berolini, Weidmann, 1866-82.

6 v. in 3. 20 cm.

VERY SCARCE. Detlefsen, D. (Detlef), 1833-1911.

### 3861. — Latin, 1866.

C. Plinii Secundi Naturalis historia. Berolini, Weidmannos, 1866-1882.

6 v. 21 cm.

VERY SCARCE. Detlefsen, D. (Detlef), 1833-1911.

### 3862. — Latin, 1875.

C. Plini Secundi Naturalis historiae libri XXXVII; post Ludovici Iani obitum recognovit et scripturae discrepantia adiecta iterum edidit Carolus Mayhoff ... Lipsiae, In aedibus B. G. Teubneri, 1875-1906 [v.1, 1906]

6 v. 17 cm.

VERY SCARCE. Jan, Ludwig von, 1807-1869, ed. // Mayhoff, Carolus, 1841-1914, ed.

### 3863. — Latin, 1875.

Naturalis historiae libri XXXVI. Lipsiae, Teubner, [1875-1905; v.1, 1905]

6 v.

VERY SCARCE. Imprint date taken from Prefaces. Vol. 6 (Indices) is 1898 "editio stereotypa" with preface dated 1865.

Mayhoff, Carolus, 1841-1914. // Jan, Ludwig von, 1807-1869.

### 3864. — Latin, 1892.

C. Plini Secundi Naturalis historiae libri XXXVII; post Ludovici Iani obitum recognovit et scripturae discrepantia adiecta. Lipsiae [Leipzig]: In aedibus B. G. Teubneri, 1892-1909.

6 v.; 18 cm.

VERY SCARCE. Naturalis historiae libri XXXVII. Published out of chronological sequence. Libri XXIII-XXX. -v. 5. Libri XXXI-XXXVII. -v. 6. Indices.

Mayhoff, Carolus, 1841-1914, ed.

### 3865. — Latin, 1906-9.

C. Plini Secundi Naturalis historiae libri XXXVII. Lipsiae, Teubner, 1906-9.

2 vols.

VERY SCARCE. Vol. 2: "...iterum edidit Carolus Mayhoff.". The 3d ed. of the Naturalis historia in the Bibliotheca Teubneriana ceased with the publication of v. 2; for the remaining v. see the older eds. of the Bibliotheca: 1st ed. by L. Jan, in 6 v., 1854-65; 2d ed. by Jan (v. 1, 1870) and Mayhoff (v. 2, 1875, v. 3 -5, 1892-97, and reissue of v. 6 (Index, 1865) 1898)

Jan, Ludwig von, 1807-1869. // Mayhoff, Carolus, 1841-1914.

## Italian editions

3866. Italian transl., 1476: Historia Naturale ... Venice, Nicolaus Jenson, 1476.

2°; [a-x<sup>10</sup> y- z<sup>8</sup> A-C<sup>8</sup> D-N<sup>10</sup> O<sup>10-1</sup> p<sup>10</sup> Q<sup>8</sup> R-S<sup>10</sup> T<sup>8</sup> V<sup>10</sup>] (unsigned; a1 and V10, blanks); 415ℓ.; no pagination, foliation or signiatures. Types, 115 (111)R and 115Gk, capital spaces with guide letters. PAGE SIZE: 408 x 265 mm.

CONTENTS: Signs., 1 (=a1), Blank.; 2r, "HISTORIA NATVRALE DI. C. PLINIO SECONDO | TRADOCTA DI LINGVA LATINA IN FIORENTINA | PER CHRISTOPHORO LANDINO FIORENTINO | AL SERENISSIMO FERDINANDO RE DI NAPOLI. | PROHEMIO."; 414v, COLOPHON: "OPVS NICOLAI IANSONIS GALLICI | IMPRESSVM | ANNO SALVTIS .M. CCCC LXXVI. | VENETIIS."; 415, Blank.



HISTORIA NATURALE, 1476

**RARE.** First appearance of the translation by Christoforo Landino [see note below] from *Historia Naturalis* (3rd ed., Venice, 1472). Landino executed this translation on the order of Ferdinand I of Aragon.

During the decade that the Frenchman Nicolaus Jenson (c1420-after 1482) was printing in Venice he produced what are commonly regarded as the most beautiful books of the incunable (pre-1500) period. Jenson has been described as the first non-German printer we know. His "antiqua" roman type was modelled on the hand favored by the Renaissance humanists who emphasized the study of ancient Latin texts. Jenson's version of antiqua roman type, however, shows some development beyond the sheer imitation of handwriting evident in the versions used by other printers. Jenson's own work continues to inspire imitation: the Oxford Lectern Bible on display in the rear gallery uses a 20th century adaptation of Jenson's type by Bruce Rogers, as do the texts (like this one) which describe this exhibit. This Italian translation of Pliny was published in a rather large edition of 1025 copies.

**Christoforo Landino.** (BORN: Florence, Italy, 1424; DIED: Florence, Italy, 1504) *Italian humanist philosopher and Latin poet.* Landino professor of rhetoric and poetry at the Academy founded in Florence by his sovereign and is best known for his commentaries on Horace and Dante. He was a protégé of Cosimo de' Medici, educating his sons, and enjoyed a well-deserved fame in Renaissance Italy.

**REFERENCES:** BL. • BMC XV: 5, 176 [IC 19694]. • Goff: no. P-801. • Hain, *Repertorium Bibliographicum*, 1826-38: 13105\*. • IGI. • Klebs, *Incunabula Scientifica*, 1938: no. 787.1. • NUC: 461, 671-90 [NP 0424500]. • Oates, *Cambridge 15th Century Books*, 1954: no. 1640. • Osler, *Incunabula Medica*, 1923: no. 103. • Proctor, *Index*, 1898-1906: no. 4099. (**Landino**) ABI: I 550, 241-261; II 317, 196-201; II S 45, 265. • Cosenza, *Italian Humanists*, 1962-7: 3, 1909-16. • Jöcher, *Gelehrten-Lexikon, Supplement*. • Nouvelle Biographie Générale (Hoefler). • Thomas, *Dictionary of Biography*, 1884: 1366. • WBI.

**3867. Italian transl., 1481:** *Historia Naturale* ... Venice, Filippo di Pietro, 1481.

2°: a<sup>8</sup> b<sup>6</sup> a-h<sup>8</sup> i-o<sup>6</sup> p<sup>8</sup> q<sup>10</sup> r-z<sup>8</sup> &<sup>8</sup> &<sup>8</sup> p<sup>8</sup> q<sup>8</sup> A-I<sup>8</sup> K<sup>8</sup>+1 (a1 and b6, blank); 293ℓ.; no pagination or foliation. Two columns, type 80G, 59 lines, capital spaces with guide letters.

**CONTENTS:** Signs., 1 (=a1), Blank.; 2r (=a2r), "Libro primo della naturale historia di. C. Pli- | nio secondo tradotta i lingua Fiorentina per Chri | stophoro landino Fiorentino al Serenissimo Ferdi | nando Re di Napoli."; 15r (=a1r), "Libro secondo della historia naturale di. C. | Plinio Secondo ..."; 292v (=K7v), **COLOPHON:** "Opus Magistri Philippi Veneti Impressum an | no Salutis. M. ccccxxxi. Venetiis."; 293r (=K8v), "Registro de Gaio Plinio | a prima vacua | ... (col. 3) uno."

**VERY SCARCE.** Translation by Christoforo Landino and published by Filippo di Pietro [see note below].

**Filippo di Pietro.** (BORN: ; DIED: ) *Italian printer.* The Venice printer, Filippo di Pietro worked in partnership with his kinsman Gabriel in 1472 and 1473, but apparently struck out on his own, regularly producing new titles until 1482.

**REFERENCES:** BL. • BMC XV: 5, 223 [IB 20198]. • Goff: P-802. • Hain, *Repertorium Bibliographicum*, 1826-38: HC 13106. • IGI. • Klebs, *Incunabula Scientifica*, 1938: no. 787.2. • NUC: [no copy listed]. (**Pietro**)

**3868. Italian transl., 1489:** *Historia Naturale* ... Venice, Bartholomaeus de Zanis, 12 September 1489.

2°: a<sup>12</sup> b-q<sup>8</sup> r-s<sup>6</sup> A-N<sup>8</sup> O-P<sup>6</sup> (a1 blank); 260ℓ.; no pagination or foliation. Two columns, type 80R1, 60 lines, capital spaces with guide letters. **PAGE SIZE:** 320 x 215 mm.

**CONTENTS:** Signs., 1 (=a1), Blank.; 2r (=a2r), "HISTORIA NATVRALE DI. C. PLINIO SE- | CONDO TRADOTTA DI LINGVA LATINA | IN FIORENTINA PER CHRISTOPHORO | LANDINO FIORENTINO AL SERENISSI- | MO FERDINANDO RE DI NAPOLI. | PROHEMIO."; 4r, "LIBRO PROMO DELLA NATVRALE HI- | STORIA ..."; 5r (=a5r), "CHOSE LEQVALI IN SOM | ma sono in ciascheduno libro."; 12v (=a12v), "REGISTRVM. | ... FINIS."; 13r (=b1r), "LIBRO SECONDO DELLA HISTORIA ..."; 260r (=P6r), **COLOPHON:** "Finisse il Libro chiamato Plinio. Vulgare Impres- | so in Venesia per Bartolamio de Zani de Portesio nel | lanno della Natiuita del nostro Signore Iesu Christo | Mcccclxxxix. adi. xii. di Settembre. Finis."

**VERY SCARCE.** Translation by Christoforo Landino and published by Bartholomaeus de Zanis [see note below].

**Bartholomaeus de Zanis.** (BORN: ; DIED: ) *German printer.* De Zanis' first authenticated book was completed 31 January 1486/7. He continued to work in Venice and Portese in 1489 and 1490 well into the 16th century.

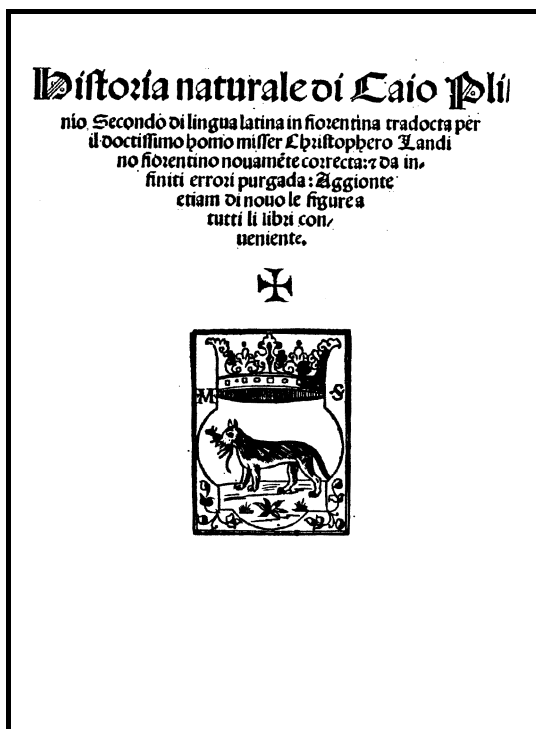
**REFERENCES:** BMC XV: 5, 431 [IB 23218]. • Goff: P-803. • Hain, *Repertorium Bibliographicum*, 1826-38: 13107. • Hoover Collection: no. 648. • IGI: no. 7895. • NUC: 461, 671-90 [NP 0424150]. • Proctor, *Index*, 1898-1906: no. 5156. • Tiraboschi ???: 6, 1065. (**Zanis**)

**3869. — Italian, 1516.**

*Historia naturale di Caio Pli- | nio Secondo di lingua latina in florentina tradotta per | il doctissimo homo misser Christophero Landi | no fiorentino nouamete correcta: & da in= | finiti errori purgada: Aggiunte | etiam di nouo le figure a | tutti li libri con= | ueniente. | ✱ | [ornament].*

2°: aa<sup>6</sup> bb<sup>8</sup> a-r<sup>8</sup> s<sup>6</sup> A-O<sup>8</sup> P<sup>6</sup> (P6 blank); 274ℓ.; 14 p.l., cclix numb.ℓ

**VERY SCARCE.** Translation by Christoforo Landino.



HISTORIA NATURALE, 1516

REFERENCES: Essling, *Livres à Figures Vénitiens*, 1907-14: pt. I, vol. 1, no. 5. • Mortimer *Italian Books*: no. 388. • NUC: 461, 671-90 [NP 0424503].

**3870. — Italian, 1525.**

Di naturalis historie, libri xxxvii. Venetiis, 1525.  
2°: 82 p.l., ccxix ff. VERY SCARCE.

**3871. — Italian, 1534.**

Historia Natvale Di C. Plinio Secondo Di Latino in volgare tradotta per Christophoro Landino, nouamente in molti luoghi, doue quella mancaua, supplito [!], & da infiniti errori emendata, & con somma diligenza correctta ... [ornament].

4°: +<sup>8</sup> ++<sup>12</sup> Aa<sup>8</sup> B-G<sup>8</sup> H-V<sup>12</sup> AA-PP<sup>12</sup> QQ<sup>14</sup> A<sup>8</sup> B<sup>12</sup>; ??ℓ.; [20]ℓ., dcccxi, [41] p. COLOPHON, (p. dcccxi): "Stampato in Vineggia per Thomaso de Ternengo ditto Balatino, 1534." VERY SCARCE.

REFERENCES: NUC: 461, 671-90 [NP 0424211].

**3872. Italian transl., 1543:** *Historia naturale* ... di latino in volgare tradotta per Christophoro Landino, et nouamente in molte luoghi, dove quella mancava, supplito, et da infiniti errori emendata, et ... correctta per Antonio Brucioli ... Aggiuntovi anchora di noua la sua vita ... Venetia, Gabriel Jolito di Ferrarii, 1543.

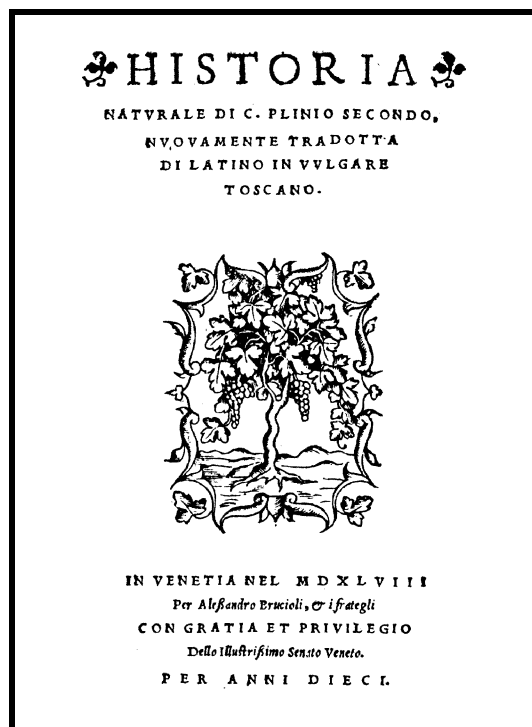
[38], dccccxxiii, [2] p. Printer's device on the title page and the last leaves of the text and index.

VERY SCARCE. Translated by Cristoforo Landino [see Italian, 1476 ed.] and edited by Antonio Brucioli [see note below].

**Antonio Brucioli.** (BORN: Florence, Italy, 1500; DIED: Florence, Italy, 1556) *Italian translator.* In 1525, Brucioli produced a Tuscan version of the Bible, and translated

some works of Aristotle, 1547-51.

REFERENCES: LKG: III 3. • NUC: 461, 671-90 [NP 0424505]. (Brucioli) ABI: I 206, 192-216; II 86, 222-223. • Casati, *Dizionario degli Scrittori d'Italia*, 1925-34. • Imperatori, *Dizionario di Italiani all'Estero*, 1956. • Jöcher, *Gelehrten-Lexikon*, Supplement. • Mazzuchelli, *Gli Scrittori d'Italia*, 1753-63. • *Nouvelle Biographie Générale* (Hoefer). • Thomas, *Dictionary of Biography*, 1884: 447. • WBI.



HISTORIA NATURALE, 1548

**3873. — Italian, 1548.**

[ornament] *Historia* [ornament] | *Naturale Di C. Plinio Secondo*, | *Nvovamente Tradotta* | *Di Latino In Vvlgare* | *Toscano.* | [ornament] | *In Venetia Nel MDXLVIII* | *Per Aleßandro Brucioli, & ifrategli* | *Con Gratia Et Privilegio* | *Dello Illustrissimo Senato Veneto.* | *Per Anni Dieci.*

4° in 8s: [40], mlxviii p. Printer's device on the title page. VERY SCARCE.

REFERENCES: Adams, *Cambridge Books*, 1967: P-1592. • Mortimer *Italian Books*: no. 389. • NUC: 461, 671-90 [NP 0424507].

**3874. — Italian, 1561.**

*Historia Naturale* ... Tradotta per K. Lodovico Domenichi ... In Vinegia, Appresso Gabriel Giolito de' Ferrarii, 1561.

4°: 68, 1168 p.

VERY SCARCE. Translation by Lodovico Domenichi [see note below].

**Lodovico Domenichi.** (BORN: Piacenza, Italy, 1515; DIED: Pisa, Italy, 20 or 22 August 1564) *Italian*

writer. Domenichi lived at Venice and Florence, where he was patronized by Duke Cosimo I. He made several important translations including Plutarch's "Lives" (1555) and Pliny's "Natural History" (1561). He also wrote several original works.

REFERENCES: NUC: 461, 671-90 [NP 0424508]. (Domenichi) ABI: I 369, 276-298; I 212, 268-174. • Casati, *Dizionario degli Scrittori d'Italia*, 1925-34. • *Dizionario Biografico Italiani*: 40, 595-600 [by A. Piscini]. • *Nouvelle Biographie Générale* (Hoefer). • Thomas, *Dictionary of Biography*, 1884: 777. • WBI.

### 3875. — Italian, 1562.

*Historia Naturale ... Tradotta per K. Lodovico Domenichi ...* In Vinegia, Appresso Gabriel Giolito de' Ferrari, 1562.

4<sup>o</sup>: a-c<sup>8</sup> d<sup>10</sup> A-4D<sup>8</sup> 4E<sup>10</sup>; ??ℓ.; 68, 1188 p.

VERY SCARCE. Translated by E. Lodovico Domenichi [??-??].

REFERENCES: NUC: 461, 671-90 [NP 0424509].

### 3876. — Italian, 1573.

*Historia Naturale di G. Plinio Secondo*, tradotta per M. Lodouico Domenichi; con le postille in Margine, nelle quali, o vengono segnate le cose notabili o citati altri auttori, che della stessa materia habbiano scritto, o dichiarati i luoghi difficili, o posti i nomi di geografia moderni ... In Vinegia, Appresso Giacomo Vidali, 1573.

4<sup>o</sup>: 57 [55], 1188 p. Translation by Lodovico Domenichi. VERY SCARCE.

REFERENCES: NUC: 461, 671-90 [NP 0424510].

### 3877. — Italian, 1754.

*Lettere di Plinio il giovane tradotte in italiano dal canonico Giovanni Tedeschi*. Tomo primo. MDCCLIV.

4<sup>o</sup>: [8], iij-cxxij, 461 p. illus., fold. plan.

VERY SCARCE. Probably a reissue of the sheets of the 1753 edition of this volume, with cancel t.-p. and preliminary matter; a second volume was published in 1755. Engraved title vignette, illus. and tail-pieces by Giovanni Lapi; plan engraved. "Vi aggiungemmo ... dall'inglese di Milord d'Orrery un saggio sulla vita di Plinio [p. iij-c] ... e le osservazioni dell'istesso sopra ogni lettera": on recto of the 4th prelim. leaf.

### 3878. — Italian, 1759.

*Lettere di Plinio il giovane tradotte in italiano dal canonico Giovanni Tedeschi*. Tomo secondo. MDCCLIX.

4<sup>o</sup>: [4], [3]-683 p. illus.

VERY SCARCE. Probably a reissue of the sheets of the 1755 edition of this volume, with cancel t.-p. and preliminary matter; the first volume was published in 1753 and reissued in 1754. Engraved title vignette and illus. by Giovanni Lapi.

### 3879. — Italian, 1787.

*Panegirico di Plinio a Trajano*, Parigi, Presso F. D. Pierres, primo stampatore del Re, 1787.

61, [1] p.

VERY SCARCE. Alfieri, Vittorio, 1749-1803, tr.

### 3880. — Italian, 1789.

*Panegirico a Trajano*, nuovamente trovato, e tradotto di Vittorio Alfieri. 2a ed. dell'autore. Parigi, 1789.

### 3881. — Italian, 1818.

*Vita di Vittorio Alfieri da Asti*, Milano, societa tipografica de classici italiani, 1818.

536 p.

VERY SCARCE. Alfieri, Vittorio, 1749-1803. // *Panegirico di Plinio a Trajano*

### 3882. — Italian, 1873.

*La giurisprudenza e la vita di Plinio il giovine*, Roma, 1873.

12<sup>o</sup>: VERY SCARCE.

### 3883. — German, 1543.

*Caij Plinij Secundi ... Natürlicher History fünff Bücher ... Newlich durch Heinrich von Eppendorff verteütscht ...* Zu Strassburg, bey Hans Schotten zum Thyergarten. Nach der geburt Christi M.D. xliij.

ccxxxv, [4] p. Printer's device (Woodcut arms of Jean Mentelin, the printer's maternal grandfather) on the title page. VERY SCARCE.

REFERENCES: NUC: 461, 671-90 [NP 0424480].

#### German editions

### 3884. — German, 1565.

*Caij Plinij Secundi ... Bücher vnd Schrifften*, von der Natur, Art und Eigenschafft der Creaturen, oder Geschopffe Gottes, als nemlich: Von den Menschen ... den vierfüssigen Thieren ... den Vögeln ... den Schlangen ... auss dem Latein verteutscht. Durch M. Johannem Heyden ... Franckfurt am Mayn, 1565.

2<sup>o</sup>: )(6 A-Z<sup>6</sup> a-r<sup>6</sup> s<sup>8</sup> t<sup>6</sup>; ??ℓ.; [12], 494, [13] p., woodcuts. Title in red and black with vignette. Printer's device on recto on leaf following text and at the end of the text. About 400 woodcut illustrations. COLOPHON: Getruckt zu Franckfurt am Mayn, durch Peter Schmidt, in Verlegung Sigmund Feyrabends, vnd Simon Hütters. Anno M.D.LXV. PAGE SIZE: 318 x 200 mm.

VERY SCARCE. First appearance of the translation by Joannes Heyden [??-??] of books 7-11 of the *Naturalis Historia*, which covers the animals. The text woodcuts are the work of J. Amman and V. Solis.

Johann Heyden. (BORN: ; DIED: ) *German translator*.

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[ BIOGRAPHY NEEDED ]  
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REFERENCES: Nissen (ZBI): no. 3189. • NUC: 461, 671-90 [NP 0424482]. • Sallander, *Bibliotheca Walleriana*, 1955: no. 10978. (Heyden) Jöcher, *Gelehrten-Lexikon*, 1750-51.

## PLINIUS SECUNDUS: ENGLISH EDITIONS

### 3885. — German, 1582.

Historia mundi naturalis. Frankfurt, Lechler für Feyerabend, 1582.

2 vols. in one. 2°: [18]ℓ., 528 p., 26, 92ℓ., (4 and 18 leaves blank), 2 printer's devices and 50 text woodcuts by J. Amman and H. Weiditz.

VERY SCARCE. Very beautiful illustrated edition of classical natural science encyclopedia.

REFERENCES: Adams, *Cambridge Books*, 1967: P-1579. • Wellcome Catalog (Books): no. 5122.

### 3886. — German, 1584.

Caii Plinii Secundi ... Bücher und Schrifften von der Natur, Art vnd Eygenschaft aller Creaturen oder Geschöpfe Gottes, als nemlich von den Menschen, ihrer Geburt, Gestalt ... Jetzundt widerumb mit sonderm fleiß durchsehen ... vnd gemehrt ... Allen Apotekern, Haußvättern vnd Hausmüttern ... nützlich vnd dienstlich. Frankfurt am Mayn, In Verlegung S. Feyerabend, 1584.

2°: )(A-Ccc<sup>4</sup> Ddd<sup>6</sup>; ??ℓ.; [12], 388, [16] p., 256 text woodcuts by J. Amman.

VERY SCARCE. Translated by Johann Heyden von Dhaun. Third German translation of books 7 to 11. Enthält die vier Teile: Vom Menschen, Von vierfüßigen vnd kriechenden Thieren, Von den Fischen u. Von den Vögeln. - Die Holzschnitte von Amman erschienen erstmals im Tierbuch von 1569, andere im Ständebuch u. dem Kriegsbuch von Fronsberger. - Titel in Rot u. Schwarz gedruckt. - Titel u. letztes Bl. etwas gebräunt, schmale Fehlstelle am Oberrand des Titels ergänzt.

Woodcut illustrations by Jost Amman [1539–1591].

REFERENCES: Nissen (BBI): no. 3190. • NUC: 461, 671-90 [NP 0424484].

### 3887. — German, 1600.

... Bücher und Schrifften von der Natur, Art vnd Eygenschaft aller Creaturen oder Geschöpfe Gottes ... Jetzundt widerumb ... durchsehen ... vnd gemehrt ... besessert vnd gemehrt ... Getruckt zu Franckfort am Mayn, durch Joha<sup>n</sup> Saur, in Verlegung Eliæ Willers, 1600.

4°: )(6 A-3A<sup>4</sup> 3B<sup>6</sup> 3C-3D<sup>4</sup>; ??ℓ.; [12], 388, [16] p., illus. VERY SCARCE.

REFERENCES: NUC: 461, 671-90 [NP 0424486].

### 3888. — German, 1784.

Lobrede auf den kaiser Trajan. Anspach, 1784.

### 3889. — German, 1796.

Lobrede auf den Trajan aus dem Lateinischen übers. und mit nothingsen Einleitungen und Anmerkungen begleitet von David Ludewig Wigand. Leipzig, Im Schwickertschen Verlage, 1796.

xiv, 297 p. VERY SCARCE.

### 3890. — German, 1810.

Hades: ein Beytrag zur Theorie des Geisterkunde: nebst Anhangen: öffentliche Verhandlungen über Swedenborg und Stilling, ein Beyspiel des Ahnungsvermögens und einen Brief des jungern Plinius enthaltend. Frankfurt am Mayn: J. C. Hermann, 1810.

128 p.

VERY SCARCE. Meyer, Johann Friedrich von, 1772-1849. // Correspondence. Liber 7, 27. German.

### 3891. — German, 1814.

Caii Plinii Caecilii Secundi Opera. Des Plinius Cacilius Secundus Werke Wien, Geistinger, 1814.

5 vols.

VERY SCARCE. Werke. Latin and German on opposite pages.

Schafer, Johann Adam, 1756-1840, tr.

### 3892. — German, 1881.

Die Natugeschichte: ins Deutsche übersetzt und mit Anmerkungen versehen. Leipzig: Gressner & Schramm, 1881-1882.

6 vols.

VERY SCARCE. Translation of: *Naturalis historiae*.

Wittstein, Georg Christian, 1810-1887.

### 3893. — German, 1898.

Die naturalis historia des Plinius im Mittelalter. Exzerpte aus der *Naturalis historia* auf den Bibliotheken zu Lucca, Paris und Leiden. München, Verlag der K.B. Akademie der Wissenschaften, 1898.

[6], [3]-118 p. double facsim.

SCARCE. A continuation of his *Auszüge aus den Naturgeschichte des C. Plinius Secundus in einem ... Sammelwerke des achten Jahrhunderts* (München, 1888). Followed by: *Das Exzerpt der Naturalis historia des Plinius von Robert von Cricklade* (München, 1902).

Ruck, Karl, 1854-

### 3894. — German, 1904.

Die geographischen Bucher (II, 242-VI Schluss) der *Naturalis historia* des C. Plinius Secundus, mit vollständigem kritischen Apparat, Berlin, Weidmann, 1904.

xviii, 282 p.

VERY SCARCE. Detlefson, Sonnich Detlef Friedrich, 1833- ed.

## English editions

### 3895. — English, 1566.

A summarie of the antiquities and wonders of the world, abstracted out of the sixtene first bookes of the excellent historiographer Plinie, wherein may be seene the wonderful workes of God in his

creatures Translated oute of French into Englishe by I.A. [i.e., John Alday?]. Imprinted at London by Henry Denham for Thomas Hacket ..., [1566].

8°: A-H<sup>8</sup>; 64ℓ.; no pagination or foliation.

RARE. Supposedly translated from the French translation of Pierre de Changy [1482-1543] by John Alday [fl. 1570]. This English version, the first published, contains no references to mineralogy.

**John Alday.** (BORN: ; DIED: ) *English translator.* Little is known of Alday, other than he translated several popular French works into English.

**Pierre de Changy.** (BORN: 1482; DIED: 1543) *French translator.*

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[ BIOGRAPHY NEEDED ]  
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REFERENCES: NUC: 461, 671-90 [NP 0424428-30]. • STC: 20031. (Alday) DNB. (Changy) ABF: I 204,120-121. • *Nouvelle Biographie Générale* (Hoefer). • WBI.

### 3896. — English, 1585.

The secrets and wonders of the world. A booke containing many excellent properties, giuen to man, beastes, foules, fishes and serpents, trees, plants, &c. Abstracted out of that excellent naturall Historiographer Plinie. Translated out of French into English. At London, Printed for Thomas Hacket 1585.

4°: A<sup>2</sup> B-H<sup>4</sup> I<sup>2</sup>; 32ℓ.; [64] p.

RARE. The translator's dedication is signed T.H. (i.e., Thomas Hacket [fl. 1560-1590]).

REFERENCES: NUC: 461, 671-90 [NP 0424431-2].

### 3897. — English, 1587.

The Secrets and wonders of the worlde. A Booke Ryght rare and straunge, contayning many excellent properties, giuen to Man, Beastes, Foules, Fishes, and Serpents, Trees and Plants. Abstracted out of that excellent naturall Historiographer Plinie. Translated out of French into English. At London Printed for Thomas Hacket, & are to be sold at his shop in Lumberd streete, vndre the Popes head. 1587.

A<sup>2</sup> B-H<sup>4</sup> J<sup>1</sup>; 32ℓ.; [64] p. no pagination or foliation. Title within an ornamental border.

RARE. The dedication is signed by the translator, T.H. (i.e., Thomas Hacket [fl. 1560-1590]).

REFERENCES: NUC: 461, 671-90 [NP 0424433].

**3898. English transl., 1601:** The Historie of the World. Commonly called, the Natural History of C. Plinius Secundus. Translated into English by Philemon Holland, Doctor in Physicke. London: Adam Islip, 1601.

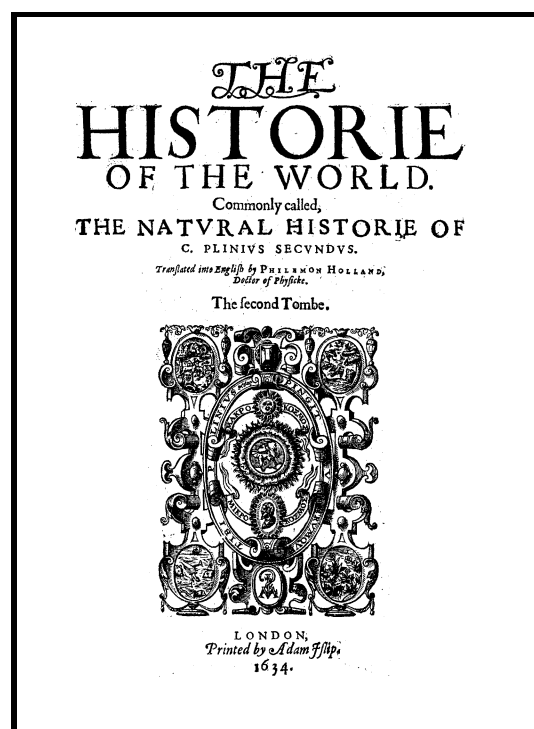
2 vols. [VOL 1] 2°: [58], 614, [42] p.; [VOL 2] 2°: [12], 632, [86] p.

RARE. Translated by Philemon Holland [see note below].

**Philemon Holland.** (BORN: Chelmsford, Essex, England, 1552; DIED: Coventry, England, 9 February 1636/7) *English translator & scholar.* English translator and scholar. Son of a clergyman, Holland graduated from Trinity College, Cambridge, with a degree of M.A. He was incorporated 1585. Subsequently, he studied medicine and about 1595 opened a medical practice when he settled

in Coventry. He produced many English translations of classical works.

REFERENCES: Silvette, H., "On looking into Holland's Pliny," *Medical Life*, 44 (1937), 261-88. (Holland) DNB. • *Encyclopaedia Britannica*, 11th edition: 13, 587. • *Nouvelle Biographie Générale* (Hoefer). • Shaver, C.L., "Philemon Holland, physician," *Annals of Medical History*, 4 (1942), 473-80. • Silvette, H., *Catalogue of the Works of Philemon Holland of Coventry, Doctor of Physicke, 1600-1940*. Charlottesville, Va., University of Virginia Press, 1940. xviii, 27 p. • Silvette, H., "Some bibliographical notes and queries on Philemon Holland's translation of the 'Regimen Sanitatis Salerni'," *Isis*, 31 (1940), 305-8.



HISTORIE OF THE WORLD, 1634

### 3899. — English, 1634-5 [2nd English].

The | Historie | Of The World: | Commonly called | The Natvrall Historie Of | C. Plinivs Secvndvs. | Translated into English by Philemon Holland | Doctor of Physicke. | The first [-second] tome. | [ornament] | London, | Printed by Adam Islip. | 1634 [-1635].

2 vols. [VOL 1] 2°: π<sup>5</sup> ¶<sup>4</sup> a-b<sup>6</sup> A-3I<sup>6</sup> 3K<sup>4</sup>; 354ℓ.; [54], [1]-614, [40] p.; [VOL 2] 2°: A-3P<sup>6</sup> χ<sup>1</sup>; 365ℓ.; [10], [1]-632, [83] p., title vignettes in both vols. PAGE SIZE: 325 x 210 mm.

CONTENTS: [Vol 1] [2 pgs], Title page, verso blank; [1 pg], Dedication to Robert Cecil Knight, signed Philemon Holland.; [5 pgs], "The Preface to the Reader."; [2 pgs], "The copie of the said Letter, written as touching the Translation of Plinie."—signed H.F., 12 June 1601.; [8 pgs], "The First Booke Of The | Histoire Of Natvre, Written | By C. Plinvs Secvndvs."; [40 pgs], "The Inventorie Of Index

## PLINIUS SECUNDUS: RUSSIAN EDITIONS

[Containing The Contents Of XXXVII | Books, Tovching The Historie Of Na- | tvre, Written By C. Plinius Secvdvs, Which Is Recei- | ved For The First Booke Of Them.]; [1]-614, Text.; [42 pgs], "An Index pointing to the principall matters contained in the | first Tome of Plinies Natvrall Historie."

[Vol 2] [2 pgs], Title page, verso blank.; [2 pages], "To The Reader.;" [8 pgs], "A briefe Catalogue of the words of Art, with the | Explanation thereof.;" [1]-632, Text.; [84 pgs], "An Index pointing to the principall matters contained in the | first Tome of Plinies Natvrall Historie.;" [1 pg], "An Advertisement.;" [1 pg], Blank.

VERY SCARCE. Second issue of the first English translation, translated by Philemon Holland [see note below]. Pliny's *Historie of the World* is an encyclopedia of all the knowledge of the ancient world. It is the only work that has survived to the present day of the 132 written by this prolific author and seeker of knowledge who lost his life exploring the eruption of Vesuvius in 79 A.D. The *Histoire* treats mathematics, physics, geography, astronomy, medicine, zoology, anthropology, physiology, philosophy, history, agriculture, mineralogy, arts and letters. The work which was handed down through many manuscripts and over 500 printed editions (1st, Venice, 1469) exerted an incalculable influence on Western culture. Pliny was an accumulator of facts and these he faithfully recorded without critical comment or skeptical judgment and thus the beliefs of the ancients were propagated forward to the present day.

**Philemon Holland.** (BORN: Chelmsford, Essex, England, 1552; DIED: Coventry, England, 9 February 1636/7) *English translator & scholar.* English translator and scholar. Son of a clergyman, Holland graduated from Trinity College, Cambridge, with a degree of M.A. He was incorporated 1585. Subsequently, he studied medicine and about 1595 opened a medical practice when he settled in Coventry. He produced many English translations of classical works.

REFERENCES: NUC. • Sinkankas, *Gemology Bibliography*, 1993: no. 5166. (Holland) DNB. • *Encyclopaedia Britannica*, 11th edition: 13, 587. • *Nouvelle Biographie Générale* (Hoefer). • Shaver, C.L., "Philemon Holland, physician," *Annals of Medical History*, 4 (1942), 473-80. • Silvette, H., *Catalogue of the Works of Philemon Holland of Coventry, Doctor of Physicke, 1600-1940*. Charlottesville, Va., University of Virginia Press, 1940. xviii, 27 p. • Silvette, H., "Some bibliographical notes and queries on Philemon Holland's translation of the 'Regimen Sanitatis Salerni'," *Isis*, 31 (1940), 305-8.

### 3900. — English, 1855-7.

The | Natural History | Of | Pliny. | Translated, | With Copious Notes And Illustrations | By The Late | John Bostock, M.D., F.R.S., | And | H.T. Riley, Esq. B.A., | Late Scholar Of Clarke Hall, Cambridge. | Vol. I. [-VI.] | London: | Henry G. Bohn, York Street, Covent Garden, | MDCCCLV. [-MDCCCLVII.]

6 vols. [VOL 1] 8°: xxviii, 499 p.; [VOL 2] 8°: xii, 555 p.; [VOL 3] 8°: xiv, [2], 536 p.; [VOL 4] 8°: xix, 523 p.; [VOL 5] 8°: xxii, 523 p.; [VOL 6] 8°: xiv, 529 p.

VERY SCARCE. Translated by John Bostock and H.T. Riley, this is considered to be the best English translation of Pliny.

Bostock, John, 1773-1846, tr. // Riley, Henry T. (Henry Thomas), 1816-1878, joint tr.

### 3901. — English, 1890.

The natural history of Pliny. London, New York, G. Bell, 1890-

VERY SCARCE. Bostock, John, 1773-1846. // Riley, Henry T. (Henry Thomas), 1816-1878.

### 3902. — English, 1896.

The Elder Pliny's chapters on the history of art. St. Clair Shores, Mich.: Scholarly Press, [1968?].

c, 252 p.: facsim., geneal. tables; 23 cm.

VERY SCARCE. Translation of selected portions of: *Naturalis historia*. Latin and English on facing pages. Reprint of the edition published by Macmillan, London, New York, 1896. Initially reprinted by Argonaut, Chicago, 1968. Includes indexes. Bibliography: p. xcvc.

Strong, Eugenie Sellers, ed. // Blake, K. Jex-, tr. // Urlichs, Heinrich Ludwig, 1864-

## Russian editions

### 3903. — Russian, 1777.

Slovo pokhval'noe Imperatoru Traianu. Korpupa, 1777.

109 p.

VERY SCARCE. Svodnyi katalog, item no. 5394.

Nartov, A. A. (Andrei Andreevich), 1737-1813.

### 3904. — Russian, 1791.

Novyi i polnyi pis'movnik ili podrobnoe i iasnoe nastavlenie, kak pisat' kupecheskii, kantseliarskii, družheskii, uvieschatel'nyi i voobshche vsiakago roda dielovyi pis'ma; takzhe ob'iavleniia, dogovory, zavieshchaniia i proch.: s prisovokupleniem perechnia mnogikh pisem znamenitkh novykh i drevnikh inostrannykh Pisatelei, kak to: iz novykh: Lorda Chesterfil'da, Vol'tera, Papy Klimenta chetyrnadtsatago, Khristiny Korolevy Shvedskoi, Gorveia, Fridrikha vtorago i raznykh drugikh, a iz drevnikh: Pliniia, Seneki, TSitserona i prochikh naibolie v sem rodie proslavivshikhsia muzhei. Sanktpeterburg: [Tipografiia Bogdanovicha,] 1791.

345 p.

VERY SCARCE. Svodnyi katalog, item no. 646.

Bogdanovich, P. I. (Petr Ivanovich), 1756-18-. // Voltaire, 1694-1778. // Hervey, James, 1714-1758. // Clement XIV, Pope, 1705-1774.

### 3905. — Russian, 1792.

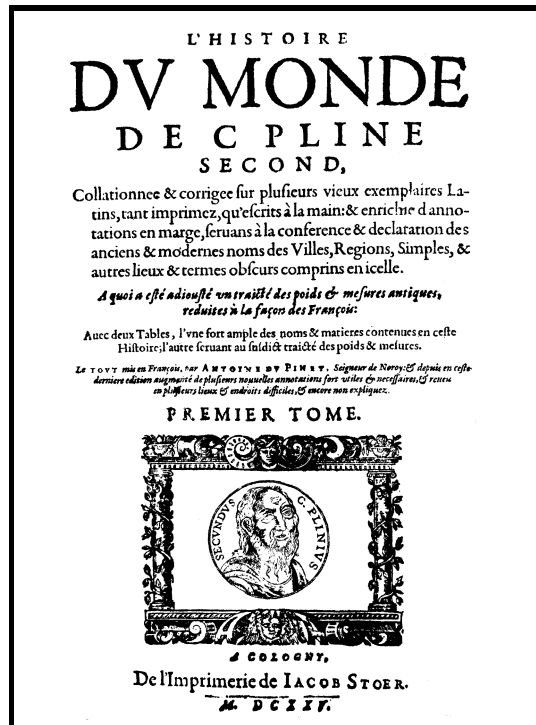
Novyi i polnyi pis'movnik ili podrobnoe i iasnoe nastavlenie, kak pisat' kupecheskii, kantseliarskii, družheskii, uvieschatel'nyi i voobshche vsiakago roda dielovyi pis'ma; takzhe ob'iavleniia,

dogovory, zavieshchaniia i proch.: s prisovokupleniem perechnia mnogikh pisem znamenitykh novykh i drevnikh inostrannykh Pisatelei, kak to: iz novykh: Lorda Chesterfil'da, Vol'tera, Papy Klimenta chetyrnadsatago, Khristiny Korolevy Shvedskoi, Gorveia, Fridrikha vtorago i raznykh drugikh, a iz drevnikh: Pliniia, Seneki, TSitserona i prochikh naiboliee v sem rodie proslavivshikhsia muzhei. Sanktpeterburg: [Tipografiia Bogdanovicha,] 1792.

344 p.

VERY SCARCE. Svodnyi katalog, item no. 647.

Bogdanovich, P. I. (Petr Ivanovich), 1756-18-. // Voltaire, 1694-1778. // Hervey, James, 1714-1758. // Clement XIV, Pope, 1705-1774.



L'HISTOIRE DV MONDE, 1525

#### French editions

#### 3906. — French, 1525.

L'Histoire | Dv Monde | De C Pline | Second, | Collationnee & corrige'e sur plusieurs vieux exemplaires La- | tins, tant imprimez, qu'escrits à la main: & enrichie d'anno- | tations en marge, seruant à la conference & declaration des | anciens & modernes nomes des Villes, Regions, Simples, & | autres lieux & termes obscurs comprins en icelle.

| ... | A Cologne, | De l'Imprimerie de Iacob Stoer. | [rule] | M. DCXXV.

2°: VERY SCARCE.

#### 3907. — French, 1543.

Translation de langue latine en francoyse, des septiesme, & huytiesme liures de Caius Plinius Secudus, de la corne de Cerf. [1543]

8°: [16], cxxxv numb.ℓ., [10] p.

VERY SCARCE. "Et furent acheuees d'imprimer, le vingt cinquesme iour de mars, l'an mil cinq cens quarente trois auant pasques." Printer's mark of Denis Janot on verso of leaf [cxxxvi]. "Loys Meigret ... aux lecteurs", on his orthography reform: prelim. leaves 3-8.

Meigret, Louis, 1510?-ca. 1560, tr.

Louis Meigret. (BORN: 1510?; DIED: c1560) French translator.

[ BIOGRAPHY NEEDED ]

#### 3908. — French, 1559.

Sommaire des singularitez de Plinie, extrait des seize premiere liures de sa Naturalis Histoire par P. de Changy ... Paris, R. Breton, 1559.

50ℓ. Printer's device on the title page. VERY SCARCE.

REFERENCES: NUC: 461, 671-90 [NP 0424457].

#### 3909. — French, 1562.

L'Histoire dv monde de C. Pline Second, collationnee & corigee sur plusieurs vieux exemplaires latins, & enrichie d'annotations en marge, servans à la conference & declaration des anciens & modernes nouns des villes, regions, simples, & autres termes obscurs comprins en icelle ... A quoy a este adiouste vn traite des pois & mesures antiques, reduites a la francoise ... le tout fait & mis en François par Antoine Du Pinet ... Lyon, A la Salemandre par C. Senneton, 1562.

2 vols.

VERY SCARCE. Translated by Antoine Du Pinet, sieur de Noroy [1515?-1584?].

L'histoire du monde ... Le tout fait & mis en François par A. Du Pinet. 2 Bde. Lyon, C. Senneton, 1562. Fol. Mit 4 gleichen Druckermarken auf den Titeln und Zwischentiteln sowie einigen figürlichen Holzschnitt-Kopfleisten und - Initialen. 6 Bl., XXXI, 678 S. (S. 35/36 weiß), 1 weißes, 77 (statt 78); 16 Bl., 745 S., 1 weißes, 51 (statt 52) Bl. Restauriertes Ldr. d. Zt. mit goldgepr. Mittelstück auf den Deckeln und dreiseit. Goldschnitt (etw. berieben und bestoßen, Rücken und Kanten erneuert). (86) Schätzpreis: 300,-

Erste französische Ausgabe. - STC 357. Adams P 1594. Baudrier VII, 429 ff. Ebert 17318. Schweiger II, 795. Hoefer XV, 327 (dat. irrthümlich 1542; mit dem Abdruck der ausführlichen Würdigung der Übersetzung durch Bayle). - Es fehlen jeweils das



## PLINIUS SECUNDUS: SPANISH EDITIONS

letzte Bl.: Bd. I mit Druckermarke und Bd. II mit "errata" und Druckermarke. In Bd. I sind S. 557-560 doppelt vorhanden. Leicht gebräunt, wenig fleckig, vereinzelt mit unbedeutenden Randschäden, Bd. I stärker wasserrandig, Bd. II mit kleinen Wurmsspuren und wenigen hs. Marginalien.

**Antoine Dupinet, Sieur de Noroy.** (BORN: 1515?; DIED: 1584?) *French Protestant & translator.* Dupinet lived in Lyons and Paris. He made a French translation of Pliny's *Naturalis Historia* (1st ed., 1542), which was highly praised. In 1565, he wrote "The Conformity of the Reformed Church of France with the Primitive Church."

REFERENCES: NUC: 461, 671-90 [NP 0424458]. (**Antoine Dupinet, Sieur de Noroy**) Thieme & Becker, *Allgemeines Lexikon*, 1907-50. • Thomas, *Dictionary of Biography*, 1884: 812.

### 3910. — French, 1566.

L'Histoire dv monde de C. Pline Second, collationnée & corrigée sur plusieurs vieux exemplaires latins, tant imprimez qu'escrits à la main, & enrichie d'annotations en marge, servans à la conference & declaration des anciens & modernes noms des villes, regions, simples, & autres lieux & termes obscurs comprins en icelle. À quoy a esté adiousté vn traité des pois & mesures antiques, reduites à la façon des Francoise ... Le tout fait & mis en François par Antoine Dv Pinet ... & denuis pour ceste seconde impression, diligemment & doctement reueu & orné de plusieurs riches annotations & explications sur certains lieux difficiles, par ledit sieur, un peu auant sa mort. À Lyon, À la Salemandre par Claude Senneton, M.D.LXVI.

2 vols. Printer's device on both title pages, head- and tailpieces.

VERY SCARCE. Translated by Antoine Du Pinet, sieur de Noroy [1515?-1584?].

REFERENCES: NUC: 461, 671-90 [NP 0424459-61].

### 3911. — French, 1580-1.

L'Histoire dv Monde de C. Pline Second, collationnée & corrigée sur plusieurs vieux exemplaires latins ... À quoy a esté adiousté vn Traité des pois & mesures antiques ... Le tout mis en François, par Antoine Dv Pinet, seigneur de Noroy: & depuis en caste troisieme impression & derniere edition augmenté ... & reueu ... Premier [-Second] Tome. A Lyon, Par Charles Pesnot, 1580-1.

2 vols. [VOL 1] 4°: \*4 \*\*6 \*\*\*4 a-z<sup>6</sup> A-2K<sup>6</sup> 2L<sup>4</sup> 2A-H<sup>6</sup>; ??ℓ.; [VOL 2] 4°: A<sup>6</sup> D<sup>8</sup> C-Zz<sup>6</sup> AA-RR<sup>6</sup> SS<sup>8</sup> a-h<sup>6</sup> i<sup>4</sup> (a1 and i4 blank).; ??ℓ. The index in each volume has a special title page with imprint: A Lyon, A la Salemandre par Claude Senneton, 1562. VERY SCARCE.

REFERENCES: NUC: 461, 671-90 [NP 0424463-5].

### 3912. — French, 1584.

L'Histoire dv Monde. Collationnes & corrigée sur plusieurs vieux exemplaires latins, trat imprez

qu'ecrits à la main, & enrichie d'annotaions en marge, seruans à la confrence & declaration des anciens & modernes noms des villes, regions, simples, & autres lieux & termes obscurs comprins en icelle. À quoy a esté adiousté vn traité des pois & mesures antiques, reduites à la façon des François ... Le tovt mis en François, par Antoine dv Pinet, seigneur de Noroy: & depuis en ceste 3. impression & derniere ed. augmenté de plusieurs nouuelles annotations fort vtiles & necessaires, & reueu en plusieurs lieux & endroits difficiles, & encores non expliqués. Lyon, A. Tardie, 1584.

2 vols. VERY SCARCE.

REFERENCES: NUC: 461, 671-90 [NP 0424467].

### 3913. — French, 1622.

L'Histoire dv monde de C. Pline ... Paris, Lovys Giffart, Clavde Morlot, & Robert Davfresne, 1622.

2 vols. in one.

VERY SCARCE. Colophon dated 1621. Title vignette.

### 3914. — French, 1729.

Histoire naturelle de l'or et de l'argent [microform]: extraite de Pline le naturaliste, livre XXXIII: avec le texte latin, corrige sur les mss. de Vossius et sur la I. edition, et éclairci par des remarq. nouvelles, outre celles de J.F. Gronovius & un poeme sur la chute de l'homme et sur les ravages de l'or et de l'argent ... par David Durand. Londres: Chez G. Bowyer & se trouve chez l'auteur, 1729.

lxxii, 258 p.

VERY SCARCE. Includes side-notes. Includes bibliographical references.

Durand, David, 1680-1763. // Gronovius, Joannes Fredericus, 1611-1671.

**David Durand.** (BORN: 1680; DIED: 1763) *English historian.*

[		]
[	BIOGRAPHY NEEDED	]
[		]

**3915. French transl., 1771-8:** Histoire Naturelle | De Pline | Traduite En François, | Avec Le Texte Latin | rétabli d'après les meilleures leçons manuscrites; | Accompagnée | De Notes critiques pour l'éclaircissement du texte, | & d'Observations sur les connoissances des Anciens | comparés avec les découvertes des Modernes. | Tome Premier. | [ornament] | A Paris, | Chez la Desaint, Libraire, rue de Foin, près de la rue S. Jacques. | [double rule] | M. DCC. LXXI. | Avec Appropriation Et Privilege Du Roi.

12 vols. PAGE SIZE: 210 x 270 mm. RARE.

### 3916. — French, 1845.

Histoire des animaux, Paris, Lefevre [etc.] 1845.

[4], 664 p.

VERY SCARCE. Translation, with Latin text at foot of page, of books vii-xi of the author's *Naturalis historia*.

Gueroult, Pierre Claude Bernard, 1744-1821.

## Spanish editions

**3917. — Spanish, 1599.**

Traduccion de los libros de Caio Plinio Segvndo, de la Historia natvral de los animales. En Madrid, Por Luis Sanchez. Ano M.D.XCIX.

4<sup>o</sup>: [20], 314 (i.e., 312) numb.ℓ

VERY SCARCE. Title vignette (arms of Philip III, the dedicatee). Printer's mark on verso of prelim. leaf 10. Page 62 misnumb. 64; nos. 64-65 omitted in paging. Contains libros 7 & 8; a 2d vol. containing libro 9 appeared in 1603; the complete translation, 37 libros, was published in 2 v., 1624-29, as *Historia natural* ...

Gomez de Huerta, Jeronimo, 1573-1643, tr.

**3918. Spanish transl., 1624-9:** *Historia Natvral de Cayo Plinio Segvndo*. Traducida por el licenciado Geronimo de Hverta ... Y ampliada por el mismo, con escolios y anotaciones, en que aclara lo oscuro y dudoso, y añade lo no sabido hasta estos tiempos ... Madrid, Luis Sanchez [vol. 2, Juan González], 1624-9.

2 vols. [VOL 1: 1624] 2<sup>o</sup>: [16], 907 [904], [28] p., woodcut portrait of De Huerta on the verso of the second leave, 3 double-plate woodcuts of animals, fishes, birds, and insects, a double-page map of the two hemispheres and a full-page woodcut of the Creation.; [VOL 2: 1629] 2<sup>o</sup>: [16], 720, [15] p. PAGE SIZE: 285 x 200 mm.

VERY SCARCE. First illustrated Spanish edition of Pliny, translated by Jerónimo Gómez de Huerta [1573-1643], physician to King Philip IV and doctor of the Sacred Office of the Inquisition. The second volumes contains chapters on medicine and pharmacy and on plants and medicinal uses, giving references to the works of Dioscorides, the "Father of Pharmacy."

REFERENCES: Brunet: 4, 718. • NUC: 461, 761-90 [NP 0424524]. • Palau, *Manual*, 1948-77: 6, 128.

**3919. — Dutch, 1733.**

Des wijd-vermaerden natuurkondigers vijf Boeck-en. Handelende van de Nature [...]. Hier zijn by-gevoeght de Schriften van verscheyden andere oude Autheuren, de Natuur de Dieren aengaende. En nu desen laetsten Druck wel het vierde part vermeerdert [...] en met veel kopere Platen verciert. t' Amsterdam, bij Isaak van der Putte, 1733.

Klein in-8<sup>o</sup>: 568 [inclusief de gegraveerde titel]-[8] pp. (licht gebruind).

VERY SCARCE. Eigentijdse band: volperkament, gladde rug (lichte slijtage met grote bruine vlek op 2de plat). Pittoresk geïllustreerde (c. 50 houtsneden!) en vulgariserende uitgave van de traditionele natuurhistorie naar Plinius en anderen waarin achtereenvolgens aan bod komen: de mens, de viervoeters, de vogels, de insecten, de vissen en schaaldieren. s Herkomst: Riboulleau; Ch. Cools Onderwijzer (handschriftelijke ex-libris).

ü Édition de vulgarisation des oeuvres de Pline et autres traitant de l'homme, des quadrupèdes, oiseaux, insectes, poissons et crustacés. Titre gravé et nombreux bois in texto (parfois rudimentairement rehaussés de rouge. Plein parchemin (ex. lég. bruni; tache au 2d plat).



PLOT

**PLOT, Robert.** (BORN: Sutton-Barne, England, 13 December 1640; DIED: Borden, Kent, England, 30 April 1696) *English antiquarian*.

Plot was a gentleman of property in Kent. He studied at Oxford, receiving a degree in 1671. He developed an interest in the natural sciences, and he became an omnivorous gatherer of specimens and observations in the Baconian tradition. In 1683, he was appointed the 'custos' of the Ashmolean Museum and professor of chemistry at the University of Oxford. He became historiographer royal in 1688 and Mowbray herald extraordinary in 1695. Plot was secretary of the Royal Society from 1682 to 1684 and again in 1692.

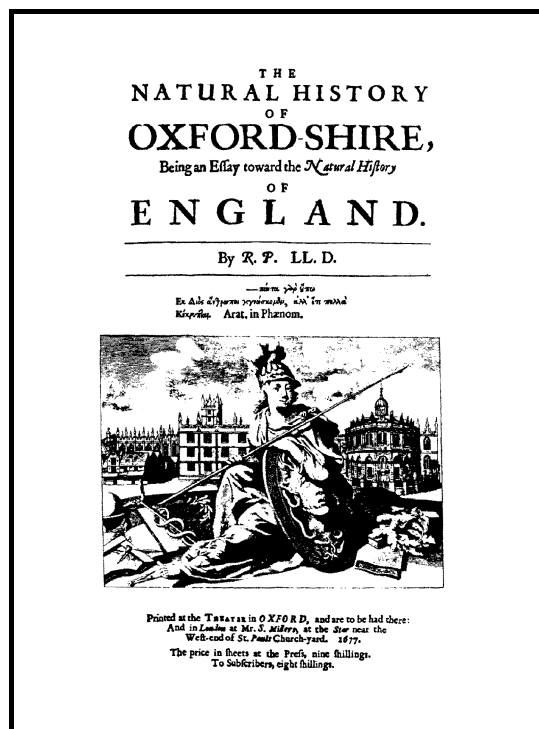
REFERENCES: Allibone, *Dictionary of English Literature*, 1859-71. • BBA: I 882, 131-166. • Cleavelly, *World Palaeontological Collections*, 1983: 233. • DNB: 15, 1311-2. • DSB: 11, 40-1 [by A.G. Keller]. • *Encyclopaedia Britannica*, 11th edition. • Harley, J.B., "John Strachey of Somerset: an Antiquarian Cartographer of the early 18th Century," *Cartographic Journal*, 3 (1966), 2-7 [Plot is discussed]. • *ISIS*, 1913-65: 2, 336. • Lambrecht & Quenstedt, *Catalogus*, 1938: 341. • Paffard, M., "Robert Plot: A County Historian," *History Today*, 20 (1970), 112-7. • Poggendorf: 2, col. 474. • Sarjeant, *Geologists*, 1980: 3, 1902-3, Suppl. 1 (1986), 2, 704 & Suppl. 2 (1996), 2, 991. • Sollas, *Age of the Earth*, 1901: 227-34. • Taylor, F.S., "Alchemical Papers of Robert Plot," *Ambix*, 4 (1949), 67-76. • Watt, *Bibliotheca Britannica*, 1824. • WBI. • *World Who's Who in Science*: 1355.

**3920. — English, 1677 [First edition].**

The | Natural History | Of | Oxford-Shire, | Being an Essay toward the Natural History | Of England. | [rule] | By R.P. LL.D. | [rule] | [...3 lines of quotation in Greek...] | [vignette] | Printed at the Theater in Oxford, and are to be had there: | and in London at Mr. S. Millers, at the Star near the | West-end of St. Pauls Church-yard. 1677. | The price in sheets at the Press, nine shillings. | To Subscribers, eight shillings.

2<sup>o</sup>: π<sup>2</sup> b<sup>4</sup> A-Z<sup>4</sup> Aa-Yy<sup>4</sup> Zz<sup>2</sup> Aaa-Bbb<sup>2</sup>; 193ℓ.; [12], [1]-358, [12] p., large engraved device on title, and engraved arms and initial in dedication to Charles II. PAGE SIZE: 312 x 195 mm.

CONTENTS: [2 pgs], Blank, verso "Imprimatur hic



NATURAL HISTORY OF OXFORD-SHIRE, 1677

Liber, ..."; [2 pgs], Title page, verso blank.; [2 pgs/=b1r-blv], Dedication to Charles the Second.; [5 pgs/=b2r-b4r], "To the Reader."; [1 pg/=b4v], Blank.; [1]-358, Text.; [1 pg/=Yy4r], "Errata."; [1 pg/=Yy4v], Blank.; [10 pgs/Zz1r-Bbb1v], "The I Index."

PLATES: A large folding map and 16 engraved plates by Micahel Burghers. Each plate has a dedication within an elaborate cartouch addressed to the owner of the land where the illustrated specimens were found.

VERY SCARCE. The classic Baconian "Natural History", a systematic gathering of information and observations on the flora, fauna, geology, paleontology and intellectual history of Oxfordshire. Plot's botanical descriptions have been highly praised, and he had some notion of stratigraphy and described and illustrates a variety of fossils (and some minerals), including a large fossil quadruped bones. He also gives a detailed account of Oxford science, arguing in some detail that Roger Bacon was the true inventor of the telescope, and reviewing the inventions and discoveries of Wilkins, Wallis, Boyle, Hooke, Halley, and others. On the strength of this book, Plot was elected a Fellow of the Royal Society.

*The History of Oxfordshire* is a very interesting work, full of queer old-world information, quaint digressions, and pleasant meandering, winding gently on each side of the main discourse. It contains a map of Oxfordshire curiously bordered round with the arms of the resident nobility and gentry, and each of its excellent plates of illustrations bears a dedication in the corner to some noble patron, with the emblazonment of his

arms.

Dr. Plot was evidently acquainted with the views of Steno, but he did not share them; on the contrary, he met them with a strenuous Opposition, in which he displayed great resources of learning and dialectic skill. A whole chapter of the History is devoted to the description of the Fossils, or, as they are there termed, the "Formed Stones" of the county. It is illustrated by engravings which, for truthfulness, leave little to be desired, so that, even at this distance of time, there is little difficulty in recognizing and identifying the different genera or even species that they represent.

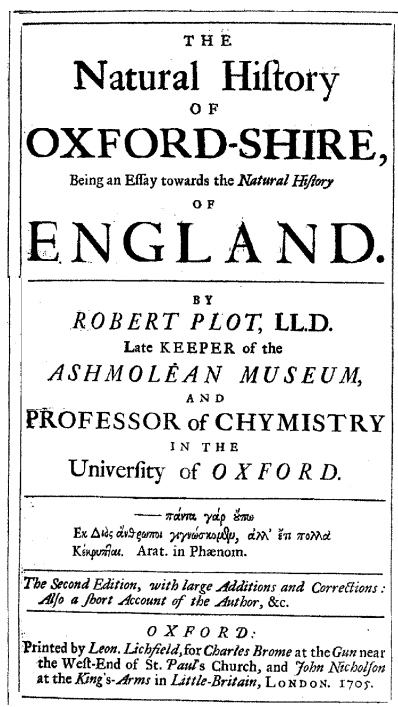
The stones to which Dr. Plot first directs attention are those that stand in some connection with the heavenly bodies, such as the Sun-stone, of which, however, there are none in Oxfordshire; the Moon-stone, or Selenites; the Asteriæ, or Star-stones, which are evidently the joints of the stem of a fossil, now called Etracrius briareus; the Astroites, bodies of irregular form, but adorned with constellations of stars; these are clearly corals, such as are now named Isastrea and Thalluastrea; and finally such stones as are supposed, "by the t llgar at least," to be generated in the Clo cds and discharged thence in the times of Thu lder and viole lt Shoccers"; such are Belemnites, and l ronti e Ornbrite; in the two latter we now recognize several kinds of Sea-urchins. The author shell passes to "The Stones that concern the Watery Kirigdo it "; some of these are spars or minerals; others are true fossils such as a " Strombites," which is compared to the living " Concha Tridacna," so called, the author quaintly observes, "because they made three Mouthfuls apiece," and he ingenuously adds that were "the Strombites not a Stone I must pronounce it the Same," i.e., as the living Tri lacna. A " Conchites " of the kind we now term " Rhynchonella" is il troduced to us, and in a digression we are informed that specimens of this "made red-hot and put into drink are accounted a present Remedy for a Stitch."

Plot did not believe in the organic nature of fossils. In the first place, Plot clearly perceived that the admission of the organic nature of fossils brought with it a whole train of perplexing consequences. To avoid these, he preferred an appeal to crystallization, as raising ultimately fewer difficulties. Other branches of science were not at that time sufficiently advanced to show the baselessness of this explanation; the subject was a difficult one, many additional observations were needed, and the mind of Plot was eminently critical. When we survey the vast superstructure that modern science has raised on the foundation prepared by Steno, i.e., on the organic nature of fossils, and the superposition of stratified rocks, none but an impatient mind will feel other than grateful to Plot for having subjected these fundamental principles to the severest examination, for having spared no argument which could possibly be brought against them. Next to suggestive generalization, science stands in need of honest criticism. (Geology required a proponent, and she found him in Steno, but she also required a critic,

and in Plot she met with one of the most penetrating intellect and uncompromising spirit.

See MADAN for additional bibliographical details.

REFERENCES: Challinor, *History of British Geology*, 1971: p. 10. • LKG: XIV 406. • Madan, *Oxford Books*, 1895-1931: 3130. • NLM 17th Century Books (Krivatsy): no. 9110.



NATURAL HISTORY, 1705

**3921. 2nd edition, 1705:** [Contained within a double rule box:] The | Natural History | Of | Oxford-Shire, | Being an Essay towards the Natural History | Of | England. | [rule] | By | Robert Plot, LL.D. | Late Keeper of the | Ashmolean Museum, | And | Professor of Chymistry | In The | University of Oxford. | [rule] | [...3 lines of text in Greek...] | [rule] | The Second Edition, with large Additions and Corrections: | Also a short Account of the Author, &c. | [rule] | Oxford: | Printed by Leon. Lichfield, for Charles Brome at the Gun near the West-End of St. Paul's Church, and John Nicholson at the King's-Arms in Little Britain, London. 1705.

2°:  $\pi^2$  (b)-(c)<sup>2</sup> A-2Z<sup>4</sup> 3A<sup>2</sup> 3B<sup>2</sup>; 194 $\ell$ .; [12], 1-366, [10] p., 16 engraved plates PAGE SIZE: 310 x 194 mm.

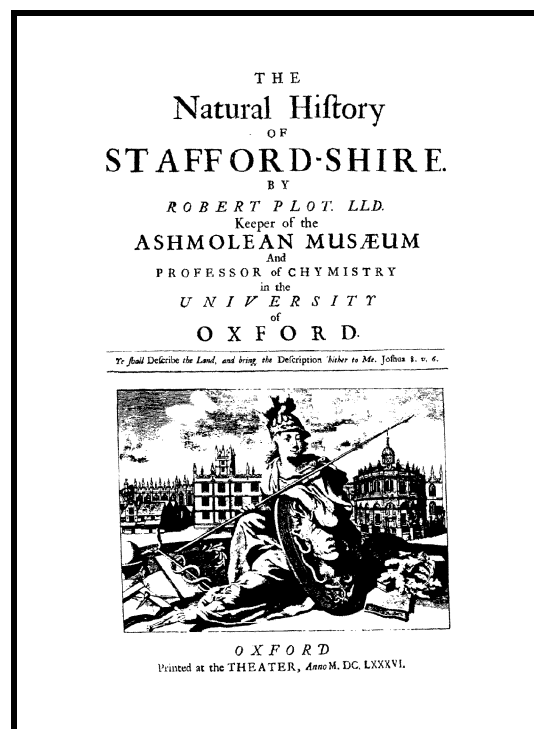
CONTENTS: [2 pgs], Title page, verso "Imprimatur hic Liber | ..."—dated 13 April 1676.; [2 pgs], Dedication to Charles the Second, signed Robert Plot.; [4 pgs], "To the Reader."; [1 pg], "The | Publisher | To The | Reader."—dated 15 June 1705.; [1 pg], "A Short | Account of the Author."; [1 pg], An ode to Plot in Latin.; [1 pg], "The | Contents | of the | Chapters."; [Folding map of Oxfordshire by Michael Burghers Sculp.]; 1-366, Text.; [9 pgs], "The | Index. | ..."; [1 pg], "Books Printed ..."

PLATES: A folding map of Oxford-shire occurs towards the beginning of the book. It is signed Michael Burghers Sculp. Each of the 16 plates is dedicated to the subscriber who paid for the plate and descriptive text. Most are signed Michael Burghers Sculp. The plates comprise the following: Tab. 1 (p. 16), 3 landscape scenes. Tab. II (p. 93), crystals,

fossils and "formed stones." Tab. III (p. 101), stalactites and fossils. Tab. IV (p. 106), shells. Tab. V (p. 112), shells. Tab. VI (p. 117), "formed stones." Tab. VII (p. 130), "formed stones." Tab. VIII (p. 143), "formed stones." Tab. IX (p. 149), plants. Tab. X (p. 215), animals. Tab. XI (p. 243), country house and fountain. Tab. XII (p. 245), grotto? Tab. 13 (p. 277), diagrams. Tab. XIII (p. 279), diagrams. Tab. XV (p. 335), antiquities. Tab. XVI (p. 364), antiquities.

VERY SCARCE. Includes a biography of Plot. The text is divided into 10 chapters which give descriptions of Oxford-shire's Heavens and Air, Waters, Earths, Stones, Formed Stones, Plants, Brutes, Men and Women, Arts, and Antiquities.

REFERENCES: Hoover Collection: no. 651.



NATURAL HISTORY OF STRAFFORD-SHIRE, 1686

**3922. — English, 1686** [First edition].

The | Natural History | Of | Stafford-Shire. | By | Robert Plot. LL.D. | Keeper of the | Ashmolean Musæum | And | Professor of Chymistry | in the | University | of Oxford. | [rule] | Ye shall Describe the Land, and bring the Description hither to Mr. Joshua 8. v. 6. | [rule] | [vignette] | Oxford | Printed at the Theater, Anno M. DC. LXXXVI.

2°:  $\pi^2$  a<sup>4</sup> b<sup>2</sup> A-Mmm<sup>4</sup>; ?? $\ell$ .; [16, [1]-450, [14] p., large folding map, 37 engraved plates, 26 of which are double-page or folding.

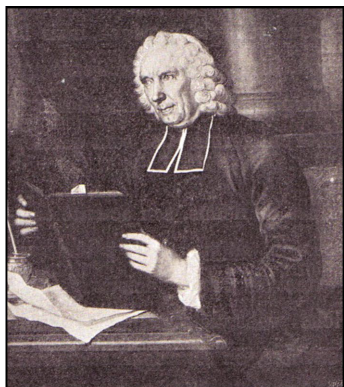
CONTENTS: [2 pgs], Title page, verso "Imprimatur. | Timo. Halton, | Vice-Can. Oxon. | Aprilis 16. | 1686."; [2 pgs], Dedication to James the Second.; [2 pgs], "The | Preface | to the Reader."; [4 pgs], "To the most Sacred Majestie | Of | James the Second | Upon occasion of

## PLUCHE

Dr Plots | presenting to him | The | Natural History | Of | Stafford-Shire."—signed Tho. Lane.; [2 pgs], Poem—"To Dr. Plot on his Natural | History of Staffordshire."; [1 pg], "Ad Autorehem..."; [3 pgs], "Directions | For a right understanding of the Map."; [1]-450, Text.; [10 pgs], "The | Index."; [4 pgs], "A Copy of the Proposals of the Author on this History, ..."

VERY SCARCE. Plot wanted to write a natural history of all England and Wales, but focused on the counties of Oxford and Staffordshire. This work on Staffordshire is considered the better of the two. The double-page engraved plates show the important, great houses of the county during the time of William and Mary, along with views of the surrounding landscape gardens. There is much information on chemistry, mining, mineralogy, and related subjects. Plot quotes from many writers including Boyle, Hooke, Helmont, Cardan, and Agricola. This copy lacks the "Armes Omitted" plate, which is almost never present, but includes the proposal and list of subscribers, usually missing. Among the subscribers are Ashmole, Robert Boyle, Kenelm Digby, John Evelyn, Nehemiah Grew, Martin Lister, and Christopher Wren.

REFERENCES: Hoover Collection: no. 652. • LKG: XIV 407a.



PLUCHE

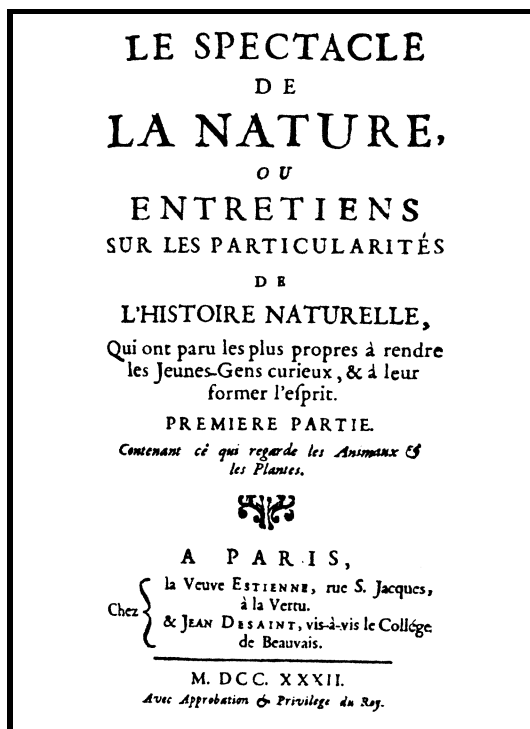
**PLUCHE, Noël Antoine.** (BORN: Rheims, France, 13 November 1688; DIED: Rheims, France, 19 November 1761) *French naturalist.*

Pluche was a professor first of humanities, then of rhetoric in his hometown of Rheims, before taking holy orders. He became notorious for refusing to swear adherence to the bull Unigenitus (1713). His major work, *Spectacle de la Nature*, was a study of life and creation that was translated into virtually all European languages, still appearing in abridged editions in the early nineteenth century.

REFERENCES: ABE: I 752, 282-283. • ABF: I 842, 262-274. • *Biographie Universelle*. • Dezobry, *Dictionnaire de Biographie*, 1889. • Feller, *Biographie Universelle*, 1851. • Le Moyne, Nicolas Toussaint., *Les siècles littéraires de la France*. Paris, 1800-3. 4 vols. [Reprinted, Genève, Slatkine, 1971.]. • *Nouvelle Biographie Générale* (Hoefer). • WBI.

**3923. — French, 1732-51** [First edition].

Le Spectacle | De | La Nature, | Ou | Entretiens | Sur Les Particularités | De | L'Histoire Naturelle |



LE SPECTACLE, 1732

Qui ont paru les plus propres à rendre | les Jeunes-Gens curieux, & à leur | former l'esprit. | Première Partie. | Contenant ce qui regarde les Animaux & | les Plantes. | [ornament] | A Paris, | [Next 4 lines braced on the left by: "Chez {"] la Veuve Estienne, rue S. Jacques, | à la Vertu. | & Jean Desint, vis-à-vis le Collège | de Beauvais. | [rule] | M. DCC. XXXII. | Avec Approbation & Privilège du Roy.

8 vols. [VOL 1: 1732] 12°: 528 p. [VOL 2: 1735] 12°: 486 p. [VOL 3: 1735] 12°: 574 p. [VOL 4: 1739] 12°: 599 p. [VOL 5: 1746] 12°: 596 p. [VOL 6: 1746] 12°: 571 p. [VOL 7: 1746] 12°: 555 p. [VOL 8, part 1: 1751] 12°: 436 p. [VOL 8, part 2: 1751] 12°: 388 p., index. With numerous engraved copperplates, many folding. PAGE SIZE: 105 x 170 mm.

VERY SCARCE. Pluche's *Spectacle* looks at philosophy, religion, and history through a scientific lens. He presents polite dialogues on natural history and human artifice among four fictional characters: a knowledgeable Prior, an inquisitive Knight, a Count and a Countess. The discussion tends toward the discovery of good design in its exposition of natural phenomena and of their usefulness for human industry. The Prior states that God placed stone in the earth expressly for human use in building. The ferocity of wild animals is explained as an opportunity provided by God for our training in arms against the depredation of fellow humans. In another example, God's purpose for burrowing worms was to provide commerce and

productivity for the Norwegians and Dutch: the Norwegians manufacture pine tar and the Dutch apply it to ship hulls in efforts to halt the worms divinely commissioned devastation.

Pluche was important because his work proved widely popular, passing through dozens of French editions before 1800 and it was translated into Dutch, German, Spanish, Italian and English translations. It was the fourth most common work to be found in private libraries between 1750-1780.

Pluche's role in the history of science is, however, is fairly complex. Even while he drew upon the work of Newton, Musschenbroek, Galileo, Copernicus, dGravesande, Nollet, Leeuwenhoek and other eminent scientists, he was frequently skeptical of "gentlemen who cant perceive the hand of the Almighty in any of the works of nature." Many scholars argue that Pluche's devout approach, rather than making new scientific advances truly intelligible to the public through the medium of everyday language, succeeded rather in diluting the scientific content. However, this criticism by no means diminishes Pluche's influence and success.

REFERENCES: BL. • Dryander, *Catalogus Banks*, 1796-1800: 1, p. 77. • NUC. • Quérard, *France Littéraire*, 1964: 8, p. 217-218. • Trinkle, Dennis. "Noël-Antoine Pluche's *Le Spectacle de la nature*: An encyclopaedic best seller", *Studies on Voltaire and the Eighteenth Century*, 358 (1997), 93-134.

**3924. Second edition, 1746-9:** *Le spectacle de la nature, ou Entretiens sur les particularités de l'histoire naturelle, qui ont paru les plus propres à rendre les jeunes-gens curieux, & à leur former l'esprit.* Paris, Chez la veuve Estienne & fils, 1746-1749.

7 vols. Title varies. Vols. 5-7: Nouvelle édition. [VOL 1] 8°: [VOL 2] 8°: [VOL 3] 8°: [VOL 4] 8°: [VOL 5] 8°: [VOL 6] 8°: [VOL 7] 8°: VERY SCARCE.

REFERENCES: NUC.

**3925. Another edition, 1754:** *Le Spectacle de la Nature. Ou Entretiens Sur Les Particularités De l'Histoire Naturelle, Qui Ont Paru Les Plus Propres à Rendre Les Jeunes - Gens Curieux , & à Leur Former l'Esprit.* Par l'Abbe Pluche ... Parisis, Frères Estienne, 1754.

7 vols., plus 2 vols. of supplement. VERY SCARCE.

REFERENCES: NUC.

**3926. Another edition, 1771:** *Le spectacle de la nature, ou Entretiens sur les particularités de l'histoire naturelle ...* Paris, Estienne, 1771.

8 vols. [VOL 1] 12°: xxii, [2], 561, [3] p. [VOL 2] 12°: xxiii, [1], 468 p. [VOL 3] 12°: [4], 575, [1] p. [VOL 4] 12°: 599, [1] p. [VOL 5] 12°: [4], 596, [3] p. [VOL 6] 12°: [4], 598, [2] p. [VOL 7] 12°: [4], 554, [6] p. [VOL 8] 12°: [4], 436, [2] p. VERY SCARCE.

REFERENCES: Barbier: 4, p. 557-558. • NUC.

### English Editions

**3927. English transl., 1736:** *Spectacle de la nature, or, nature display'd.* Being discourses on such particulars of natural history as were thought most proper to excite the curiosity, and form the minds of youth. Illustrated with copper plates. ... Translated from the original French. By Mr. Humphreys. London, printed for J. Pemberton; R. Franklyn; and C. Davis, 1736.

3 vols. PAGE SIZE: 200x122 mm. VERY SCARCE.

REFERENCES: NUC.

**3928. English transl., 1757:** *Spectacle de la Nature: | Or, | Nature Delineated; | Being | Philosophical Conversations. | Wherein | The wonderful Works of Providence, | in the Animal, Vegetable and Mineral Creation | are laid*

open; the Solar and Planetary System, and | whaever is curious in Mathematicks explaind. | The Whole being a Complete Course of Natural | and Experimental Philosophy, calculated for the | Instruction of Youth, in order to prepare them for | an early Knowledge of Natural History, and | create in their Minds an exalted Idea of the Wisdom | of the Great Creator. | Translated from the Original French, by | John Kelly, of the Inner Temple, Esq; | D. Bellamy, of St. Johns College, Oxford; And | J. Sparrow, Surgeon and Mathematician. | The Whole embellishd with a great Variety of Copper - | Plates, beautifully engraved by the best Hands. | The Fourth Edition, with large Additions, | Carefully Revised and Corrected: With a particular Table | of Contents, and a general Copious Index to each Volume. | Nature is Nothing bu the Art of God; a bright | Display of that Wisdom, which demands an | Eternal Tribute of Wonder and Worship I. Watts. | London: | Printed for James Hodges, at the Looking-Glass, | near London-Bridge. 1757.

4 vols. 12mo. Volume I: 1757. 4th edition: [i-ii], iii-xii, [xiii-xxiv], [1], 2-318, (34) [Index] (lacks ad leaves). Volume II: 3rd edition 1744: [xvi], 1-317, (26) [Index]. Lacks final index leaf. Volume III 3rd edition 1744: [xxvi], 1-359, 369, 361-370, (14) [Index]. Integral ad. leaf bound in before page 1. Volume IV 3rd edition 1744: [x], 1-289, (14) [Index]. PAGE SIZE: 165 x 100 mm.

PLATES: 74 (of 75) plates, and four frontispieces in total. Plates: many of which are folding, are as follows: Vol 1 Engraved frontis by B. Cole and 22 of 23 plates, also signed by B. Cole. Plate 13 appears to be lacking. Plates in this volume mostly depict insects, (including folding plates of wasps nest), birds, mammals, marine life, and the structure of plants. Vol 2 Engraved frontis by B. Cole and 21 plates, also signed by B. Cole. All plates are present, and depict gardens, flowers, trees, and apple presses. Vol 3 Engraved frontis by B. Cole and 20 plates, also signed by B. Cole. All plates are present, and depict flowers, mammals, fish and marine life, shells and coral, fossils, diagrams of ships, and the orbit of the earth. Vol 4 Engraved frontis by B. Cole and 21 plates, also signed by B. Cole. All plates are present, and depict subjects related to astronomy and astrology, as well as maps of the earth and constellations.

RARE. These volumes are a four-volume distillation and translation from the work of Noël-Antoine Pluche, and catalogued as such, for example, by Wellcome. Hodges later appears to have brought our further volumes as means permitted, meaning that it is also possible to find vols 5, 6, 7, and 8.

REFERENCES: NUC.

### Spanish Editions

**3929. Spanish transl., 2nd edition, 1756-68:** *Espectaculo de la naturaleza, o Conversaciones acerca de las particularidades de la historia natural, que han parecido mas a proposito para excitar una curiosidad util, y formarles la razon ß los jovenes lectores: que contiene lo que pertenece al hombre en sociedad.* Segunda edicion. En Madrid, En la oficina de Joachin Ibarra ..., 1756-1768.

16 vols. 4°.

RARE. Spanish translation of *Le Spectacle de la Nature* (1732-1751).

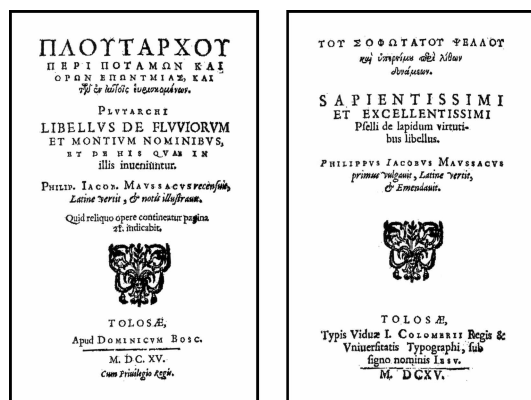
REFERENCES: NUC. • Palau, *Manual*, 1948-77: no. ??.

**PLUTARCH.** (BORN: Chaeronea in Boeotia, between 46 and 50; DIED: Cheronea in Boeotia, between 120 and 125) *Greek writer & moralist.*

Plutarch spend time in Rome and other places in the Roman empire, but returned to his birth city. He is particularly remembered for his *Lives* that gives biographies of the famous people of his era. However he authored about 80 other essays collected in his *Moralia*. A number of other works on a wide range of subjects are also attributed to his name but they are probably not genuine.

## PLUTARCH

REFERENCES: Sarton, *Introduction*, 1928-52: 1, 251-2. • Volkmann, R.v., *Leben, Schriften und Philosophie des Plutarch von Chaeronea*. Berlin, S. Calvary, 1869. 2 vols. [Reprinted, Hildesheim; New York, G. Olms, 1980].



PLUTARCH & PSELLUS TITLE PAGES, 1615

### Supposititious Works

**3930. — Latin, 1615** [First edition].

ΠΛΟΥΤΑΡΧΟΥ | ΠΕΡΙ ΠΟΤΑΜΩΝ ΚΑΙ | ΟΡΩΝ  
ΕΠΩΝΤΜΙΑΣ, ΚΑΙ | [...one line of text in Greek...] |  
Plvtarchi | Libellvs De Flvviorm | Et Montivm  
Nominibvs, | Et De His Qvam In | illis inueniuntur.  
| Philip. Iacob. Mavssacvs recensuit, | Latine vertit,  
& notis illustravit. | Quid reliquo opere contineatur  
pagina | 2f. indicabit. | [ornament] | Tolosæ, | Apud  
Dominicvm Bosc. | [rule] | M. DC. XV. | Cum  
Priuilegio Regis.

[TITLE PAGE TO PSELLUS WORK READS:]

ΤΟΥ ΣΟΦΩΤΑΤΟΥ ΨΕΛΛΟΥ | [...2 lines in Greek...] |  
| Sapientissimi | Et Excellentissimi | Pselli de  
lapidum virtuti- | bus libellus. | Philippvs Iacobvs  
Mavssacvs | primus vulgavit, Latine vertit, | &  
Emendauit. | [ornament] | Tolosæ, | Typis Viduæ  
I. Colomerii Regis & | Vniuersitatis Typographi,  
sub | signo nominis Iesv. | [rule] | M. DCXV.

8°: [8], 376 p.; [4], 60 p.

VERY RARE. A significant volume, published with comments by the Languedocian scholar Philippe Jacques de Maussac [1590-1650]. It brings together three scientific and esoteric works for the first time: 1) *De Fluviorum et Montium Nominibus* of Plutarch which is here printed in its first Latin translation prepared by Philippe Jacques de Maussac. 2) *De Lapidum Virtutibus* of the mathematician and philosopher of Constantinople, MICHAEL PSELLUS [1020-1110], appears here for the first time in a treatise on mineralogy and hermetism. It is accompanied by the Latin translation also given by Maussac and which appears here also in its first edition. 3) *Microcosmus seu Liber Cephale Anatomicus de Proportionibus Utriusque Mundi* by the

doctor of Nîmes Jean Pistorius and had been published previously in Lyon in 1606. It is a curious and esoteric treatise which puts in parallel mankind and the Universe. The compilation volume is seldom complete. Brunet describes it with the following comment: "Not a common edition. There are examples with a general title announcing the treatise *De Microcosmo* of J. Pistorius but with the treatise not present."

The first of these works, that entitled *De Fluviorum et Montium* (Treatise on Rivers and Mountains), has been attributed to Plutarch, who was born about 46 C.E. and died at a very advanced age, although the exact date of his death is not known. It is included in some editions of Plutarch's collected works, and omitted in others. It is now generally agreed that the treatise was not written by him but by some unknown author who is generally referred to as either "pseudo-Plutarch" or "α-Plutarch," and that it dates from the first quarter of the third century. It is a strange work and at first glance the reader is at a loss to know whether he has before him a treatise on geography or one on religion. Further examination, however, shows it to be a magical and medical treatise, resembling the *Kyranides* in many respects, and like these it is divided into twenty-four chapters, the number corresponding to that of the letters in the Greek alphabet. There are twenty-four stones mentioned in this *Treatise*, some of them, as for example beryl, asterites and sardonix, being well known, others are well-known stones which here appear under new names.

Contents of the volume are the α-Plutarch's *Libellus de Flvviorm dt Montivm* (pp. 1-96), followed by the *Liber De Fluminibus* of Vibio Sequestre (pp. 97-126) and notes and commentary to both (pp. 127-333). This work contains the first appearance of the *Libellus de Lapidum virtutibus* of Michele Psello, which is fully described under that author. After a separate title page, introductory material by Gilberto Gualmino (pp. 337-343) begins the Psello text, which has been edited and translated by Philippe Jacob de Maussac. This text appears on pages 345-357, set in two columns, with the Greek (on the left) and Latin (to right). The Psellos work is then followed by the *Castigationes* (pp. 358-361), and an appendix with notes by Arpocrazione (pp. 361-375). The *De Microcosmo* of J. Pistorius that sometimes accompany the book, but which is not always present, has a separate title page and pagination of 60 pages.

REFERENCES: Adams, *Birth and Development*, 1938: p. 28, 30-2. • BL: [686.b.14.(1.)]. • Brunet, G., *France Littéraire au XVe siècle*, Paris, 1865: 4, p. 747-748. • Gatterer, *Mineralogischen Literatur*, 1798-9: 2, 7. • Hoffmann, *Lexicon Litteratur Griechen*, 1838-45: 3, p. 303-304. • LKG: III 41\*. • Mély, *Les Lapidaires Grecs*, 1898-1902: p. liv. • Mottana, Annibale., "Storia della mineralogia antica. I. La mineralogia a bisanzio nel XI secolo D.C.: I poteri insiti nelle pietre secondo Michele Psello," *Ren. Fis. Acc. Lincei*, Ser. 9, 16 (2005), 227-295. [A detailed history of Michele Psello's lapidary of the eleventh century.]: [title page figured].

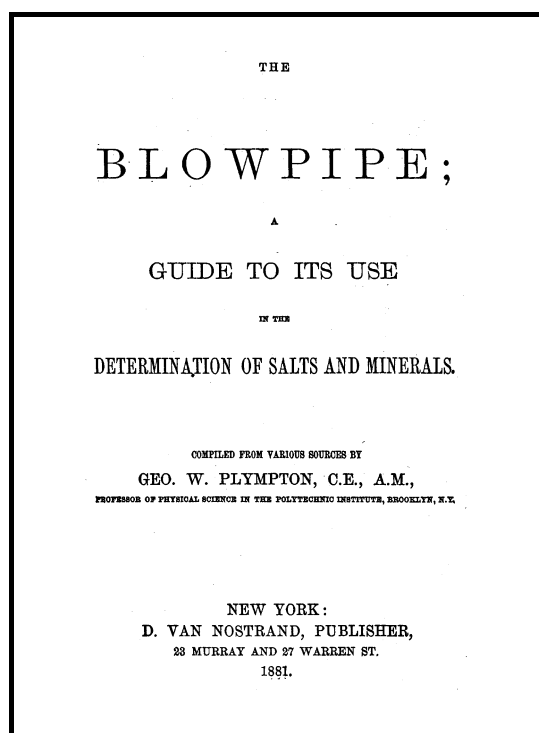
**3931. Another edition, 1618:** ΠΛΟΥΤΑΡΧΟΥ ΠΕΡΙ ΠΟΤΑΜΩΝ ΚΑΙ ΟΡΩΝ ΕΠΩΝΤΜΙΑΣ, ΚΑΙ. Plutarchi Libellus de



fluviorum et montium nominibus ... P. J. Maussacus recensuit, Latine vertit, et notis illustravit. (Vibii Sequestri liber de fluminibus, fontibus ..., gentibus quorum apud poetas mentio fit. ΤΟΥ ΤΟΥ ΣΟΦΩΤΑΤΟΥ ΨΕΛΛΟΥ. Pselli Libellus de Lapidum Virtutibus, Phil. Jac. Maussacus primus Vulgavit, Latine Vertit et Emendavit; Græce et Latine. Tolbsæ, Dominique Bosc, 1618.

8°: [8], 376 p.; [4], 60 p. VERY RARE.

REFERENCES: BL: [569.c.10.(1-3.)].



THE BLOWPIPE, 1881

**PLYMPTON, George Washington.** (BORN: 1827; DIED: 1907) *American civil engineer.*

REFERENCES: ABA: I 1286, 144-150. • Adams, *Dictionary of American Authors*, 1904. • *Appleton Cyclopedia of American Biography*. • *Herringshaw's National Library of American Biography*. • *National Cyclopedia of American Biography*. • WBI. • *Who Was Who in America*.

**3932. — English, 1881.**

The | Blowpipe; | A | Guide To Its Use | In The | Determination Of Salts And Minerals. | Compiled From Various Sources By | Geo. W. Plympton, C.E., A.M., | Professor Of Physical Science In The Polytechnic Institute, Brooklyn, N.Y. | New York: | D. Van Nostrand, Publisher, | 23 Murray And 27 Warren St. | 1881.

8°: VERY SCARCE.

**POECH, Franz.**

**3933. — French, 1900.**

L'Industrie Minerale de Bosnie-Herzegovine. Vienne, 1900.

8°: 56 p., one geological map, 10 text figures. VERY SCARCE.

REFERENCES: Milojević, *Geoloska Bibliografija Jugoslavije*, 1952: 236.



POEY

**POEY Y ALOY, Felipe.** (BORN: Havana, Cuba, 26 May 1799; DIED: Havana, Cuba, 28 January 1891) *Cuban mineralogist & naturalist.*

Poe y Aloy studied law in Havana, but early on became interested in the natural history of his native Cuba. In particular he studied the fishes found around the island, discovering several new species.

REFERENCES: ABE: I 752, 377-378, 383-391; II 724, 408-410. • Jordan, David Starr., *Science Sketches*. 1896: p. 171-180. • *Popular Science Monthly*: 25, p. 547, portrait. • WBI.

**3934. — Spanish, 1872 [First edition].**

Curso Elemental de Mineralogia, por D. Felipe Poe y. Habana, A. Pego, 1872.

8°: 183 p., plate.

VERY RARE. This is the first textbook dealing with mineralogy in Cuba. It is a book that worked as an elemental course in the science, prepared for students of the school system of Cuba. Popular on the island, it appeared in two more editions.

REFERENCES: NUC.

**3935. 2nd edition, 1878:** Curso Elemental de Mineralogia, por D. Felipe Poe y ... Segunda Edicion muy corregida y aumetada. Habana, Imprenta del gobierno y Capitanía General por S.M., 1878.

8°: vii, 9-295 p., 4 plates, tables. RARE.

REFERENCES: *USGS Library Catalog*.

**3936. 3rd edition, 1883:** Curso Elemental de Mineralogia, por D. Felipe Poe y 3. Edición Reformada. Habana, Imprenta del gobierno y Capitanía General por S.M., 1883.

8°: 178 p., 4 plates. RARE.

REFERENCES: *USGS Library Catalog*.

**POGGENDORFF, Johann Christian.** (BORN: Hamburg, Germany, 29 December 1796; DIED: Berlin, Germany, 24 January 1877) *German physicist & chemist.*





POGGENDORFF

In 1834, Poggendorff received his Ph.D. from the University of Berlin and in 1844 he was awarded a medical degree from the University of Königsberg. He was appointed in 1834 extraordinary professor of physics and chemistry at the University of Berlin, where his research concentrated on problems in electricity and magnetism. He is remembered today in the field of mechanics as the inventor of the Poggendorff Scale. He founded in 1824 and edited the important *Annalen der Physik und Chemie*.

REFERENCES: ADB. • *Annalen der Physik und Chemie* (Poggendorff's): 160 (1877). • *Biographie Universelle*. • DBA: I 968, 214-227; II 1017, 169-176. • DSB: 11, 49-51 [by F. Klemm]. • *Encyclopaedia Britannica*, 11th edition. • Poggendorff: 2, cols. 480-2, 3, 1052-3. • Salié, H., "Ein Standardwerk zur Geschichte der Naturwissenschaften. Hundert Jahre 'Poggendorff'," *Forschungen und Fortschritte*, 37 (1963), 202-5. • Salié, H., "Poggendorff and Poggendorff. Translated by R.E. Oesper," *Isis*, 57 (1966), 389-92. • Schaedler, *Biographisch Handwörterbuch*, 1891: 95-6. • WBI.

### 3937. — German, 1863.

Biographisch-Literarisches | Handwörterbuch | Zur Geschichte | Der Exakten Wissenschaften | Enthaltend | Nachweisungen | Über | Lebensverhältnisse | Und Leistungen | Von | Mathematikern, Astronomen, Physikern, Chemikern, Mineralogen, Geologen, USW. | Aller Völker Und Zeiten. | Gesammelt | Von | J.C. Poggendorff | Mitglied Der Akademie Der Wissenschaften Zu Berlin. | Erster Band. [-Zweiter Band.] | A-L. [-M-Z.] | [tapered rule] | Leipzig, 1863. | Verlag Von Johann Ambrosius Barth.

[TITLE PAGE, VOLUME 3]

J.C. Poggendorff's | Biographisch-Literarisches | Handwörterbuch | Zur Geschichte | Der Exakten Wissenschaften | Enthaltend | Nachweisungen | Über | Lebensverhältnisse Und Leistungen | Von | Mathematikern, Astronomen, | Physikern, Chemikern, Mineralogen, Geologen, Geographen U.S.W. | Aller Völker Und Zeiten | [short rule] | Dritter Band | (1858 bis 1883) | Herausgegeben von Dr.



BIOGRAPHISCH-LITERARISCHES HANDWÖRTERBUCH

B.W. Feddersen und Prof. Dr. A.J. von Oettingen | I. [-II.] Abtheilung | (A-L) [- (M-Z)] | [ornament] | Leipzig | Verlag Von Johann Ambrosius Barth | 1898.

[TITLE PAGE, VOLUME 4]

J.C. Poggendorff's | Biographisch-Literarisches | Handwörterbuch | ... | Vierter Band | (Die Jahre 1883 Bis Zur Gegenwart Umfassend) | Herausgegeben Von | Prof. Dr. A.J. von Oettingen | I. [-II.] Abtheilung | (A-L) [- (M-Z)] | ... | 1904.

7 vols. [VOL 1: 1863] 8°: [i]-viii p., cols. 1-1584. [VOL 2: 1863] 8°: [2] p., cols. 1-1468, [2] p. [VOL 3, pt. 1: 1898] 8°: [i]-viii, [2], [1]-846 p. [VOL 3, pt. 2: 1898] 8°: [2], [847]-1496 p. [VOL 4, pt. 1: 1904] 8°: [i]-xii, [1]-930 p. [VOL 4, pt. 2: 1904] 8°: [2], [931]-1718 p. [VOL 5: 1925] 8°: [i]-iv, [1]-1,423, [1] p. [VOL 6, pt. 1: 1936] 8°: [i]-lxxii, [1]-696 p. [VOL 6, pt. 2: 1937] 8°: [4], [697]-1,438 p. [VOL 6, pt. 3: 1938] 8°: [iii]-xl, [1,439]-2,256 p. [VOL 6, pt. 4: 1939] 8°: [i]-vii, [1], [2,257]-2,975, [1] p. PAGE SIZE: 248 x 158 mm.

CONTENTS: [Vol 1] [i-ii], Title page, verso "Das Recht der Uebersetzung vorbehalten."; [iii]-viii, "Vor- und Schlusswort des Verfassers."; Cols. [1]-1534, Text.; Cols. [1525]-1584, "Ergänzungen und Berichtigungen | zu | den in dem ersten Bande (A-L) enthaltenen Artikeln. | (Neue Artikel bleiben dem Nachträge vorbehalten.)"

[Vol 2] [2] pgs], Title page, verso "Das Recht der Uebersetzung vorbehalten."; Cols. [1]-1424, Text.; Cols. [1425]-1444, "Ergänzungen und Berichtigungen | zu | den in dem ersten Bande (M-Z) enthaltenen Artikeln. | (Neue Artikel bleiben dem Nachträge vorbehalten.)"; Cols.

[1445]-[1446], "Nachträgliche Zusätze."; Cols. [1447]-1468, "Schlüssel zur Quellen-Literatur."; [2 pgs], "Im Verlag von Johann Ambrosius Barth in Leipzig ..." [=publisher's list].

[Vol 3, pt. 1] [i-ii], Title page, verso blank.; [iii]-vi, "Vor- und Schlusswort."—signed Dr. Arthur von Oettingen, 29 December 1897.; [vii]-viii, "Druckfehler und Berichtigungen."; [2 pgs], "I. Abtheilung | (A-L)."; [1]-846, Text.

[Vol 3, pt. 1] [2 pgs], Title page, verso blank.; [847-848], "II. Abtheilung | (M-Z)."; [849]-1490, Text.; [1491]-1496, "Schlüssel zur Quellen-Literatur."

[Vol 4, pt. 1] [i-ii], Title page, verso blank.; [iii]-x, "Vor- und Schlusswort."—signed Prof. Dr. Arthur von Oettingen, 18 September 1904.; [xi]-xii, "Druckfehler und Berichtigungen."; [1]-930, Text.

[Vol 4, pt. 1] Pp. [2 pgs], Title page, verso blank.; [931-932], "II. Abtheilungen | (M-Z)."; [933]-1698, Text.; [1699]-1716, "Nachtrag zu Band I bis IV."; [1717]-1718, "Schlüssel zur Quellen-Literatur in Band IV."

[Vol 5] [i-ii], Title page, verso blank.; [iii]-iv, "Vorwort."—dated 1926.; [1]-1423, Text, A-Z.; [1 pg], Blank.

[Vol 6, pt. 1] [i-ii], Title page, verso blank.; [iii]-lxvi, List of reference.; [lxvii]-lxxii, Abbreviations.; [1]-696, Text, A-E.

[Vol 6, pt. 2] [2 pgs], Title page, verso blank.; [2 pgs], "Vorwort zu Band VI, 2 Teil."; [697]-1438, Text, F-K.

[Vol 6, pt. 3] [iii-iv], Blank, verso series title page.; [v-vi], Title page, verso blank.; [vii]-ix, "Vorwort zu Band VI, 3 Teil."—dated 1938.; [x], Blank.; [xi]-xxxvii, List of references.; [xxxviii], Blank. xxxix-xl, Abbreviations.; [1439]-2256, Text, L-R.

[Vol 6, pt. 4] [i-ii], Half title page, verso series title page.; [iii-iv], Title page, verso blank.; [v]-vii, "Vorwort zu Band VI, 4 Teil."—dated 1939.; [1 pg], Blank.; [2257]-2975, Text, S-Z.; [1 pg], Advertisement.

VERY SCARCE, especially in complete sets. The best bibliography of exact science in existence, not only as containing many works that could only be traced with difficulty in other bibliographies, but for giving biographical particulars of many authors who could not be found elsewhere, and including as a unique feature an almost complete list of the scientific papers of the various authors contributed to learned societies. For these the first two volumes are specially important as they contain papers published in the eighteenth century, which cannot be traced elsewhere.

The work is of such value, that it is being continued in the present day. Volumes cover the years, the first 2 volumes listed ancient scientists to 1858, part 3 covers 1858 to 1883, part 4 covers 1884 to 1903, part 5 covers the years 1904 to 1922, part 6 covers 1923 to 1931, part 7a covers Germans 1932 to 1953, and part 7b covers non-Germans, 1932 to 1962. An eighth volume was completed by 2003 finishing off this remarkable series.

REFERENCES: Salié, H., "Ein Standardwerk zur Geschichte der Naturwissenschaften. Hundert Jahre 'Poggendorff'." *Forschungen und Fortschritte*, **37** (1963), 202-5. • Salié, H., "Poggendorff and Poggendorff. Translated by R.E. Oesper." *Isis*, **57** (1966), 389-92.

**POHL, Johann Emanuel.** (BORN: Kamnitz, Bohemia, 22 February 1782; DIED: Vienna, Austria, 22 May 1834) *Austrian physician.*

From 1808 to 1812, Pohl was an adjunct professor of natural history at the University of Prag. From 1817 to 1821, he was the mineralogist and botanist that accompanied the Austrian state expedition to the interior

of Brazil. On his return Pohl he took the position as professor of medicine at the University of Vienna, where he also curated the Brazilian collections of the royal cabinet. Pohl was a member of the royal Bohemian Society of Science.

REFERENCES: *Abhandlungen einer Privatgesellschaft in Böhmen*: **4**, 1837 [obituary]. • ADB. • DBA: I 986, 341-351. • Poggendorff: **2**, col. 484. • WBI. • Wurzbach, *Biographisches Lexikon Österreich*, 1856-91.



SYSTEMATISCHER UEBERBLICK, 1816

### 3938. — German, 1816.

Systematischer Ueberblick | der | Reihen - Folge | einfacher Fossilien. | [tapered rule] | Nebst Beyfügung der üblichsten deutschen und französischen Synonyme | und eines vollständigen alphabetischen Registers, zur Anordnung | oryktognostischer Fossiliensammlungen dargestellt | von | Johann Emanuel Pohl, | [...10 lines of titles and memberships...] | [double rule] | Prag, 1816. | In der Calveschen Buchhandlung.

2°: π<sup>3</sup> A-2D<sup>2</sup>; 57ℓ.; [6], [1]-108 p. PAGE SIZE: 236 x 190 mm.

CONTENTS: [2 pgs], Title page, verso blank.; [2 pgs], Dedication to Carl Cäsar Leonhard.; [1 pg], "Einige Vorwort."—signed, J.E. Pohl, March 1815.; [1 pg], "Namen-Abkürzungen der angeführten Schriftsteller."; [1]-64, Text.; [65]-105, "Register."; 106-109, "Einige Nachwort."

VERY SCARCE. The purpose of of this work is to give descriptions of all the important minerals, including physical and chemical properties. It contains

## POMET

a synopsis on how to order a mineral collection, together with synonyms. The foundation of the system Pohl has chosen in based upon writings of Werner and Ullmann. The latest discoveries in mineralogical science has announced in Leonhard's *Taschenbuch* are included.

REFERENCES: BL.

**POLLIO, Lucas.** (BORN: 1605; DIED: 1643) *German theologian.*

REFERENCES: DBA: I 970, 398-400. • Jöcher, *Gelehrten-Lexikon*, 1750-51. • WBI.

**3939. — Latin, 1629** [Dissertation].

Exercitatio Physica | De | Metallis, | Quam | Præside | Deo Ter. Opt. Max. | Et | Permittente | Inclytâ Facultate Philosophicâ, | Vice disputationis pro Loco, in eâdem | consequento, primæ, | Ventilandum publice proponit | M. Lucas Pollio | Uratislaviensis. | Ad II. Calendas Septemb. | [ornate rule] | Lipsiæ | Typis exscribæ Justuæ Jansonius Danus, | [rule] | Anno cc lxx XXIX.

4°: [20] p. A dissertation describing the physical, mythical and medical properties of metals. RARE.

REFERENCES: LKG: XVI 35. • VD17: 12:180304G.



POMET

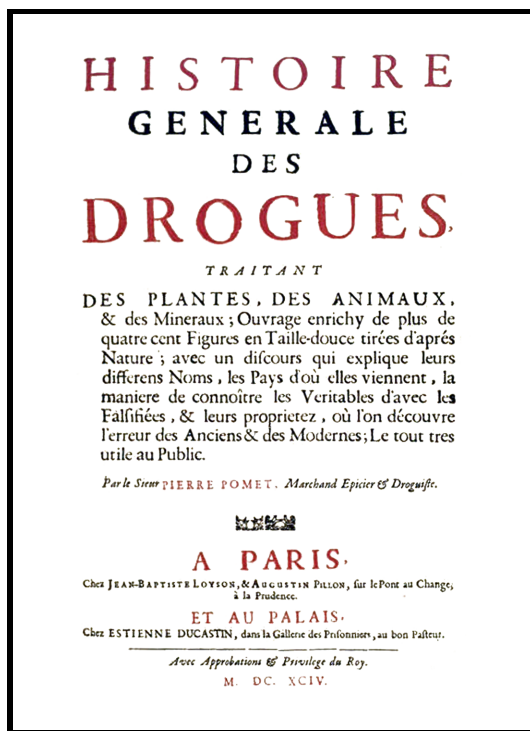
**POMET, Pierre.** (BORN: Paris, France, 2 April 1658; DIED: Paris, France, 18 January 1699) *French botanist & apothecary.*

Pomet, apothecary to the French court, was a renowned and much travelled chemist and botanist. He opened a 'drug-house' in Paris and taught botany at the Jardin des Plantes. He was distinguished by his knowledge of all manner of *materia medica*.

REFERENCES: ABF: I 846, 119-120. • *Nouvelle Biographie Générale* (Hoefer). • WBI.

**3940. — French, 1694** [First edition].

[In red:] Histoire | [in black:] Generale | Des | [in red:] Drogues, | [in black:] Traitant | Des Plantes, Des Animaux, | & Des Mineraux; Ouvrage



HISTOIRE GÉNÉRALE, 1694

enrichy de plus de | quatre cent Figures en Taille-douce tirées d'après | Nature; avec un discours qui explique leurs | differens Noms, les Pays d'où elles viennent, la | maniere de connoître les Veritables d'avec les | Falsifiées, & leurs proprietéz, où l'on découvre | l'erreur des Anciens & des Modernes; Le tout tres | utile au Public. | Par le Sieur [in red:] Pierre Pomet [in black:] Marchand Epicier & Droguiste. | [ornament] | [in red:] A Paris, | [in black:] Chez Jean-Baptiste Loyson, & Augustin Pillon, sur le Pont au Change, | à la Prudence. | [in red:] Et Au Palais, | [in black:] Chez Estienne Ducastin, dans la Gallerie des Prisonniers, au bon Pasteur. | [short rule] | Avec Approbations & Privilege du Roy. | [in red:] M. DC. XCIV.

3 parts in one volume. [Part 1] 4°:  $\pi^2$   $\tilde{a}^4$  A-Pp<sup>4</sup> ( $\tilde{a}^1$  missigned  $\tilde{a}^2$ ); 132 $\ell$ .; [12], [1]-16, [1]-232, 233j-264xxxij, 233-304 (i.e., 336) p., frontispiece (engraved portrait of Pomet, signed "A. le Clerc le Jeune fecit.") and an engraved plate "Manier de purifier l'Argent vif" inserted between  $\tilde{a}^4$  and A1. [Part 2] 4°: A-Ee<sup>4</sup>; 54 $\ell$ .; [1]-108 p. [Part 3] 4°: Ff-Oo<sup>4</sup> Pp<sup>1</sup>; 77 $\ell$ .; [1]-116, [38] p. Over 400 fine engravings in the text.

CONTENTS: [Part 1] [2 pgs], Title page, verso blank; [10 pgs], General preliminary matter.; [1]-16, "Remarques Trescurieuses sur plusieurs vegetaux, animaux, mineraux et autres que j'ai oublié d'insérer dans la premiere impression ou que j'ai découvert du depuis."; [1]-232, 233j-264xxxij, 233-304, Text, part one.

[Part 2] [1]-108, Text, part two.  
[Part 3] [1]-116, Text, part three.; [30 pgs], Index.; [6 pgs], Appendix.; [2 pgs], Privilege and Pomet's advertisements.

SCARCE. This work, among the first to act as a handbook to apothecary, contains chapters, each with its own vignette, on sugar manufacturing, whale hunting, extraction of whale oil, tobacco, unicorns, mummies, coffee, tea, ostrich, etc. The third part of 116 pages deals with the mineral substances used in pharmacy with notes about their extraction and preparation. Considered the better edition due to the presence of the engraved portrait.

This was the only edition published during the life of Pierre Pomet and it was the most important illustrated book on medical plants and animals during the 17th century. Garisson and Morton quote it as: "The most complete *Materia Medica* of his time". It was divided in 3 parts, the first dealing with plants, the second with animals and the third with fossils, metals, minerals and the index with appendix. There are 160 plants depicted amongst which tobacco and tea and several of the "Caffe" plant and 28 animals of which one the famous double "portrait" of a Whale, called here "Cachalot et Baleine Femelle" and 5 figures of the "Unicorne or Licorne" and a famous one of "des Perles". The minerals are not illustrated.

REFERENCES: BL. • Garrison & Morton: no. 1827.1. • Hunt Botanical Catalog: no. 391. • Nissen (BBI): [no copy listed]. • Plesch, *Stifung für Botanik Auction*, 1975-6: no. 367. • Pritzel, *Thesaurus Literaturæ Botanicae*, 1871-3: no. 7258. • Roller & Goodman, *Catalogue*, 1976: 2, 317.

**3941. 2nd edition, 1735:** *Histoire generale des drogues, traitant des plantes, des animaux, et des mineraux; ouvrage enrichi de plus de quatre cents figures en taille-douce tirees d'apres nature; avec un discours qui explique leurs differens noms, les pays d'ou elles viennent, la maniere de connoitre les veritables d'avec les falsifiees, et leur proprietez, ou l'on decouvre l'erreur des anciens et des modernes; le tout tres utile au public.* Paris, 1735.

2 vols. [VOL 1] 4°: xviii, 306, [14] p.; [VOL 2] 4°: 406, [14] p. VERY SCARCE.

**Facsimile reprint, 1974:** *Histoire Generale Des Drogues, Simples Et Composees.* Lausanne, Imprimeries Réunies, 1974. 2 vols. xviii, 303, [14] p.; 406, [15] p.. Frontispiece and many illustrations of plants, animals etc. Beautiful facsimile edition of the second enlarged edition of the most complete work on the *materia medica* of its time Pomet was a Paris apothecary who collected drugs from around the world. His publication on it contains numerous fine illustrations of animals, exotic plants, minerals, shells, fishing, apiculture, the manufacture of tobacco, sugar-cane, silk, cotton, indigo and rubber, etc.

REFERENCES: Hunt Botanical Catalog: no. 496. • Nissen (BBI): 1555n. • Pritzel, *Thesaurus Literaturæ Botanicae*, 1871-3: no. 7258.

### English editions

**3942. English transl., 1st edition, 1712:** A compleat history of drugs written in French by Monsieur Pomet ... ; to which is added what is further observable on the same subject from Messrs. Lemery and Tournefort ... ; done into English from the originals. London, Printed for R. Bonwicke, William Freeman, Timothy Goodwin, John Walt hoe, Matthew Wotton, S. Manship, John Nicholson, Benjamin Tooke, Rich. Parker, and Ralph Smith, 1712.

2 vols. [VOL 1] 4°: [16], 224 p., plates 1-68. Title page in red and black. [VOL 2] 4°: [20], 225-419, [13] p.,

plates 69-86. Title pages in red and black.

VERY SCARCE. Remainder of t.p. transcription: Divided into three classes, vegetable, animal and mineral; with their use in physick, chymistry, pharmacy and several other arts: illustrated with four hundred copper cuts curiously done from the life; and an explanation of their different names, places of growth, and countries from whence they are brought; the way to know the true from the false, theit virtues &c. A work of very great use and curiosity. First ed. of the first English translation.—Cf. Johnston, S.H. Cleveland coll., 328. Bound in 1 vol.; paged continuously. Vol. 2 has separate t.p. Illustrations apparently copied from the French ed. but reproduced 4 to a leaf. Title pages in red and black. Publishers' advertisements on b4 verso and 2F. Includes index. Hunt botanical cat., 428. Johnston, S.H. Cleveland coll., 328.

Drugs – Early works to 1800. *Materia medica* – Early works to 1800. Other author Tournefort, Joseph Pitton de, 1656-1708. Lemery, Nicolas, 1645-1715.

**Facsimile reprint, 1970:** *A compleat history of drugs...* London, Brummell Press, 1970. [20], 419, [13] p., 86 leaves of plates. [Limited to 500 copies.]

REFERENCES: *Cleveland Herbal & Botanical Collections*, 1992: no. 328. • Hunt Botanical Catalog: no. 428. • STC: no. ??.

**3943. English transl., 2nd edition, 1725:** A Compleat History of Drugs. To which is added, what is further observable on the same subject, from Mess. Lemery and Torefort. Divided into Three Classes, Vegetable, Animal and Mineral; With their Use in Physick, Chymistry, Pharmacy, and several other Arts. Done into English ... The Second Edition. London, Printed for R. and J. Bonwicke, and R. Wilkin ..., 1725.

4°: A<sup>4</sup> a-b<sup>4</sup> B-Ff<sup>4</sup>, B<sup>2</sup> C<sup>4</sup> Dd<sup>2</sup>; 226ℓ.; [24], 419, [9] p., 86 engraved plates (showing plants, herbs, animals, fish, snakes, minerals, etc.). Title page in red and black. Engraved plates of plants and animals.

SCARCE. The first important *materia medica* in the English language. This work was at the time of its publication, the most comprehensive on the subject, and it enjoyed great success in the original as well as translated languages. Although primarily botanical, the text includes significant information on the use of minerals in pharmacological preparations.

**3944. 1737:** A compleat history of drugs ... London, Printed for J. J. Bonwicke, R. Wilkin, S. Birt, T. Ward and E. Wicksteed, 1737.

4°: A<sup>4</sup> a-b<sup>4</sup> B-Ff<sup>4</sup>, 2B-Cc<sup>4</sup> Dd<sup>2</sup>; 226ℓ.; [24], 419, [9] p., 86 leaves of plates. Title in red and black ink. Engraved plates of plants and animals. Text in 2 columns.

VERY SCARCE. Translation of *Histoire générale des drogues*. Not a reissue of the 1725 2nd edition. Signatures: A4 a-b4 B-2F4, B-2C4 2D. Title in red and black ink. Engraved plates of plants and animals. Text in 2 columns. A catalogue of the seeds of several scar

**3945. 1748:** [In black:] A Complete | [in red:] History | [in black:] Of | Drugs. | Written in French | [in red:] By Moniseur Pomet | [in black:] Chief Druggist to the late French King Lewis XIV. | To which is added what is further observable on the same Subject, from | [in red:] Mess. Lemery and Tournefort, | [in black:] Divided into Three Classes, | Vegetable, Animal and Mineral; | With their Use in | [in red:] Physic, Chemistry, Pharmacy, | [in black:] And several other Arts. | Illustrated with above Four Hundred Copper-Cuts, curiously done from the | Life; and an Explanation of their diffren Names, Places of Growth, and Countites where they are produced; with the Methods of distinguishing | the Genuine and Perfect, from the Adulteried, Sophisticated, and Decayed; | together with their Virtues, &c. | [in red:] A Work of very great Use and Curiosity. | [in black, rule] | Done into English from the Originals. | [rule] | The Fourth Edition, carefully corrected, with large Additions. | [rule] | [in red:] London, | [in black:] Printed for J. and J. Berwicks, S Birt, W.

## PONTOPPIDAN

Parker, C. Hitch, and E. Whitehead. | [in red:] M DCC XLVIII.

4<sup>o</sup>: A<sup>4</sup> a<sup>4</sup> b<sup>2</sup> B-Ee<sup>4</sup> Ff<sup>2</sup>, 2B-Dd<sup>4</sup> Ee<sup>2</sup>; 226<sup>l</sup>.; xx, 220, 202, [10] p., 86 leaves of plates. Title in red and black. Plates engraved throughout.

VERY SCARCE. Based upon the author's *Histoire générale des drogues*. 'Pomet's general history of drugs': 202 p. at end.

### German editions

**3946. 1727:** Neu-eröffnetes Materialien- und Naturalien-Magazin, darinnen nicht allein die Materialien, Specereyen und Handels-Wahren, sondern auch die zur Artzney dienliche Vegetabilia, Edelgesteine, Mineralia, Meer-Gewächse, Thiere, &c. ... Wobey alle Kräuter, Bäume, Gewächse, Wurtzeln, Thiere, Stein &c. in Kupffer vorgestellt werden ... Leipzig: Moritz Goerg Weidmanns, 1727.

4<sup>o</sup>: [4], 452 (double columns), [32] p. Includes 67 finely engraved plates with over 400 illustrations. Approbation and register<sup>l</sup>.

VERY RARE. German translation of Pierre Pomet's legendary *Histoire Générale des Drogues*. The first part illustrates many exotic plants, herbs, and fruits such as tea, coffee, cocoa, tobacco; drugs mentioned include opium, nux vomica, hemlock, strychnine, etc. The second section deals with zoology and marine biology; the third and fourth parts treat minerals and mining. Among the interesting engravings are illustrations of a sugar cane mill, tobacco processing, and preparation of mummies in Egypt.

Fromm, Hans: *Bibliographie deutscher Übersetzungen aus dem Französischen*, 5, 159 // 'Vom Tabac': columns 195-202. Plate 32 depicts the tobacco plant and the production of tobacco rolls. Translation of *Histoire générale des drogues*.

**PONTOPPIDAN, Eric.** (BORN: Aarhus, Denmark, 24 August 1698; DIED: Bergen, Norway, 20 December 1764) *Norwegian theologian*.

Pontoppidan studied divinity at the University of Copenhagen, and for some time acted as a travelling tutor. In 1735 he became one of the chaplains of the king. In 1738 he was made professor extraordinary of theology at Copenhagen, and in 1745 bishop of Bergen, Norway.

REFERENCES: *Dansk Biografisk Haandleksikon*: 3, 123, portrait. • *Dansk Biografisk Lexikon*. • DBA: I 971, 427-460. • Jöcher, *Gelehrten-Lexikon*, 1750-51. • Poggendorff: 2, col. 500. • SBA: Scandinavian Biographical Archive: A-255, 418-451; A-256, 1-24; A-256, 144. • WBI. • Worm, *Forsøg til et Lexicon over Danske*, 1771-84.

**3947. — Danish, 1752-3** [First edition].

Det første Forsøg | paa | Norges Naturlige Historie, | førestillende | Dette Kongeriges Luft, Grund, Fielde, Vande, Vaexter, | Metaller, Mineralier, Steen-Arter, Dyr, Fugle, | Fiske og omsider Indbyggernes Naturel, samt | Saedvaner og Levemaade | [rule] | [...2 lines of text...] | af | Erich Pontoppidan Dr. | [...one line of titles...] | [vignette] | Kiøbenhavn, 1752. | Tryki i de Berlingske arvingers bogtrykkerie, ved Ludolph Henrich Lillie.

2 vols. [VOL 1: 1752] 4<sup>o</sup>: [56], 338 p., 16 leaves of plates (13 folded). [VOL 2: 1753] 4<sup>o</sup>: [25], 464, [23] p., [14] leaves of plates (12 folded). Volume two published: Kiøbenhavn, udi det Kongelige Wäysenhuses bogtrykkerie, trykt af Gottmann Friderich Kisel, 1753. Includes



NORGES NATURLIGE HISTORIE, 1752

bibliographical references and indexes. PAGE SIZE: 204 x 164 mm.

VERY SCARCE. This central topographical work is considered to be the first natural history of Norway. Pontoppidan's work both contains folklore, important informations on flora and fauna, and curious descriptions of strange species, such as the sea-worm. Views of both Bergen and Drammen are among the 30 engravings, the latter is the earliest known view of Drammen.

Facsimile reprint, 1977: *Norges Naturlige Historie 1752-53*. 2 vols. [54], 338 p.; [22], 464, [23] p.

REFERENCES: BL: [461.c.28.]. • LKG: XIV 709.

### German editions

**3948. First edition, 1753-4:** Erich Pontoppidans ... Versuch einer natürlichen Historie von Norwegen, worinnen die Luft, Grund und Boden, Gewässer, Gewächse, Metalle, Mineralien, Steinarten, Thiere, Vogel, Fische und endlich das Naturel, wie auch die Gewohnheiten und Lebensarten der Einwohner dieses Königreichs beschrieben werden aus dem Danischen übers. von Johann Adolph Scheiben. Kopenhagen, bey F. C. Mumme, 1753-1754.

2 parts. [Part 1] 8<sup>o</sup>: 53, [10], 367 p. [Part 2] 8<sup>o</sup>: 56 (i.e., 54), 536 p., 30 engraved plates (20 folding).

RARE. Translation by Johann Adolph Scheibe [1708-1776] of *Det Forste Forsøg paa Norges Naturlige Historie* (Kiøbenhavn, 1753).

REFERENCES: LKG: XIV 710a.

**3949. 2nd edition, 1769:** Versuch einer natürlichen Historie von Norwegen. Aus dem Dänischen übersetzt von J.A. Scheibe. Kopenhagen, 1769.

2 parts. [Part 1: 1769] 4<sup>o</sup>: ?? p. [Part 2: 1754] 4<sup>o</sup>: ?? p.

VERY SCARCE. Translation by Johann Adolph Scheibe [??-??] of *Det Forste Forsog paa Norges Naturlige Historie* (Kiøbenhavn, 1752-3) and edited by Franz Christian Mumme [??-??].

REFERENCES: BL: [235.e.21.].

### English edition

**3950. English transl., 1755:** The | Natural History | Of | Norway: | Containing, | A particular and accurate account of the Temperature of the Air, the | different Soils, Waters, Vegetables, Metals, Minerals, Stones, Beasts, | Birds, and Fishes together with the Dispositions, Customs, and | Manner of Living of the Inhabitants interspersed with Physiological | Notes from Eminent Writers, and Transactions of Academics. | In Two Parts. | Translated from the Danish Original of the | Right Rev<sup>d</sup>. Erich Pontoppidan, | [...2 lines of titles and memberships...] | Illustrated with Copper Plates and a General Map of Norway. | [rule] | [ornament] | [double rule] | London: | Printed for A. Linde, Bookseller to Her Royal Highness the Princess Dowgger | of Wales, in Catherine Street in the Strand. | [rule] | MDCCLV.

2 parts in one volume. 2<sup>o</sup>:  $\pi^2$  b-f2 B-Ggg2;  $\pi^2$  b2 B-Hhh2; 271 $\ell$ .; [i]-xxiii, [1], [1]-206 p., one folding engraved map (69x54 cm.), plates 1-14.; [i]-vii, [1], [1]-291, [13] p., plates 15-28. PAGE SIZE: 363 x 232 mm.

CONTENTS: [Part 1] [i-ii], Title page, verso blank.; iii-xx, "The Author's Preface."; [xxi]-xxiii, "A List of the Authors quoted in this Work."; [1 pg], "The Contents."; [Large folding map].; [1]-206/(=B-Ggg2v), Text part one.;

[Part 2] [i-ii], Title page, verso blank.; iii-vii, "The Author's Preface | To The | Second Part."—dated 24 April 1753.; [1 pg], "The | Contents | To Part II."; [1]-291/(=B-Eeee2v), Text part two.; [1 pg], "Directions for the Binder in placing the Plates."; [11 pgs/=Fffl1r-Hhhh2r], "General Index."; [1 pg], Blank.

SCARCE. The classic work on the natural history of Norway. The fine plates show plants, minerals, views, animals, among which is an early engraving of a sea serpent, etc.

First edition in English of the first comprehensive survey of the natural history of Norway. The original Danish edition was published in Copenhagen in 1752/53; this English translation is the first to contain a map. The plates depict plants, animals, and minerals, as well as several excellent views. There is much on the customs of the people, and an account of a famous sea serpent, with a plate picturing it. Nissen 522; Wood 522.

REFERENCES: BL: [459.c.3.]. • Hoover Collection: no. 654. • LKG: XIV 710a. • Nissen (ZBI): no. 3224. • Wood, *Literature of Vertebrate Zoology*, 1931: p. 522.

### 3951. — German, 1757.

Bedenken über die naturl. Ursache der vielen und starken Erdbeben. Kopenhagen, 1757.

8<sup>o</sup>: VERY SCARCE.

REFERENCES: LKG: XIII 269\*\*\*.

### 3952. — German, 1758.

Abhandlung. von der Neuigkeit der Welt. A.d. Dan. von C.G. Mengel. Kopenhagen und Leipzig, 1758.

8<sup>o</sup>: VERY SCARCE.

REFERENCES: LKG: XIII 102.

### 3953. — German, 1765 [German transl.].

Erich Pontoppidan, ... Kurzgefaszte nachrichten, die naturhistorie Dannemark betreffend. Aus dem Danischen uberseszt ... Kopenhagen, Hamburg, Verlegts Gabriel Christian Rothens Wittwe, und Prosst, und Michael Christian Bock, 1765.

8<sup>o</sup>: 232 p. illus., XVII plates (folding).

PLATES: Plates are signed "I. Haas sc.".

VERY SCARCE. No more of this translation was published. It is a German translation of the first volume of the author's *Danske Atlas*, where in nine plates depict geological matter among which are petrefactions and fossil shells from the Cabinets of Charlottenburg, Moltke, and Pontoppidan, and the six other plates show fishes, birds and insects.

REFERENCES: BL: [150.f.14.]. • LKG: XIV 14e. • Nissen (ZBI): no. 3221.

### PORTES, Ludovic.

### 3954. — French, 1879.

Manuel de minéralogie. Paris, Octave Doin, 1879.

12<sup>o</sup>: [4], 366, [2] p., 66 illus. PAGE SIZE: 173 x 106 mm.

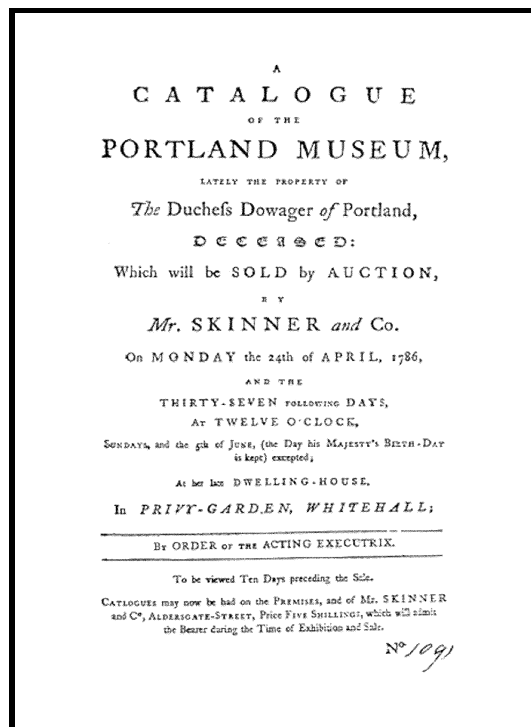
VERY SCARCE. A standard handbook for student use that follows the classification of Delafosse. It is illustrated with 66 figures in the text.

REFERENCES: BL: [ 7106.aa.29.].

### PORTLAND, Margaret Cavendish Holles Harley Bentinck, Duchess Dowager of. (BORN: 1715; DIED: 1785) *English aristocrat.*

Her natural history collection was extensive and nationally known. It contained mostly shells, but also many "spars, ores and chrystals."

REFERENCES: Chalmers-Hunt, *Natural History Auctions*, 1976. • Dance, *Shell Collecting*, 1986. • DNB. • Wilson, *History of Mineral Collecting*, 1994: 188.



CATALOGUE OF THE PORTLAND MUSEUM, 1786

**3955. — English, 1786** [Auction catalog].

A | Catalogue | Of The | Portland Museum, | Lately The Property Of | The Duchess Dowager of Portland, | Deceased: | Which will be Sold by Auction, | By | Mr. Skinner and Co. | On Monday the 24th of April, 1786, | and the | Thirty-Seven following Days, | At Twelve O'Clock, | Sundays, and the 5th of June, (the Day his Majesty's Birth-Day | is kept) excepted; | At her late Dwelling-House. | In Privy-Garden, Whitehall; | [rule] | By Order of the Acting Executrix. | [rule] | To be viewed by Ten Days preceding the Sale. | Catalogues may now be had on the Premises, and of Mr. Skinner | and C<sup>o</sup>, Aldersgate-Street, Price Five Shillings, which will admit | the Bearer during the Time of Exhibition and Sale. | N<sup>o</sup>. [Handwritten number].

Large 8<sup>o</sup>:  $\pi^4$  A-Z<sup>4</sup> 2A<sup>4</sup>; 100 $\ell$ .; [i]-viii, 3-194 p.  
PAGE SIZE: 250 x 196 mm.

CONTENTS: [i-ii], Title page, verso "Conditions of Sale."; [iii]-iv, "Preface."; [v]-vi, "References and Abbreviations | Explained."; [vii]-viii, "A concise View of the Contents of each | Day's Sale."; [3]-194, Text.

VERY SCARCE. The volume was printed in a limited edition, each numbered in pen on the title page. It was prepared by John Lightfoot, who was the Dutchess' librarian. It describes her extensive collections, mostly of specimens related to natural history. Also included are descriptions of coins, pictures, china, jewels, and the like. Upon her death, and after distribution of part of her collection to her son, the third Duke of Portland, and to others, this catalogue of the remainder, 4,156 numbered lots, was prepared for a sale to be held on 38 days between April 24th and June 7th of 1786. In addition, the Duke decided to sell some items from his portion of his mother's collection, but these, the 107 lots of the 39th day's sale, on June 8th, were not catalogued.<sup>[1,2]</sup> Offerings consisted primarily of specimens of avian and marine life and samples of minerals including many crystals, and fossils ("petrifications"). Among other items sold were Hogarth prints, a prayer book and saltcellar formerly in the possession of Elizabeth I, and the Barberini vase, which the Duchess had obtained from SIR WILLIAM HAMILTON and which later become known as the Portland vase. The catalogue was a sophisticated production in some ways, even offering a two-page bibliography of scientific references. Lowndes (1857-64) records that the complete sale realized £11,546.

Notes: [1] Walpole, H., *The Duchess of Portland's Museum*, with an introduction by W.S. Lewis. New York, Grolier Club, 1936. 4<sup>o</sup>: xiii, 15, [2] p. [Horace Walpole attended the auction and wrote a description of the collection on a sheet bound into his copy of the catalogue]. [2] *Gentleman's Magazine*: 56, part I (1786), 526. [Contains an account of the sale].

**John Lightfoot.** (BORN: 1735; DIED: 1788) *English naturalist & botanist*. Lightfoot graduated from Pembroke College, Oxford in 1766. He published *Flora Scotica* (London, 1788). He was elected a Fellow of the Royal

Society of London in 1781, and he was a member of the Linnean Society.

REFERENCES: Chalmers-Hunt, *Natural History Auctions*, 1976. • Dance, *Shell Collecting*, 1966. • Lowndes, *Bibliographer's Manual*, 1857-64: 3, 1930. • Murray, *Museums*, 1904: 1, 183 & 3, 112. • Wilson, *History of Mineral Collecting*, 1994: 188 & 220. (Lightfoot) Allibone, *Dictionary of English Literature*, 1859-71. • BBA: I 687, 144-158. • DNB. • *Nouvelle Biographie Générale* (Hoefer). • Waller, *Dictionary of Universal Biography*, 1857-63. • Watt, *Bibliotheca Britannica*, 1824. • WBI.

**3956. — English, 1786** [Price list].

A | Marked Catalogue | Containing The | Lots, | What Each Respectively Sold For, | And The Names Of The Purchasers Of The | Four Thousand Two Hundred And Sixty- | Three Lots. | Which Constituted The | Portland Museum; | Late The Property Of | The Dutchess Dowager of Portland, | Deceased. | Which Was Sold By Auction | By Mr. Skinner and Co. | On Monday the 24th April, 1786, and the thirty-eight following | Days. | Enabling every Connoisseur to know among whom those valuable Curiosities are distributed, | and the Sum which every Lot produced. | [tapered rule] | London: | Printed for Kearsley, Fleet-Street; Walker, Patnoster-Row; Sewell, Cornhill; | Flexney, Holborn; Robson, Bond-Street, and Egerton, near White-Hall. | [rule] | MDCCLXXXVI.

8<sup>o</sup>: [2], 5-44 p.

CONTENTS: [2 pages], Title page, verso "A List Of Each Day's Sale | of the | Portland Museum."; 5-44, Text, listing in double columns the lot, buyer and hammer price.

VERY SCARCE. The *Marked Catalogue* bound with some copies of *A Catalogue of the Portland Museum* (London, 1786) lists lot, buyer and price paid, arranged by day of sale, and includes a 39th day's sale, which does not appear in the main catalogue.

**POSEWITZ, Tivadar.** (BORN: Szepesigló, Hungary, 2 December 1851; DIED: Budapest, Hungary, 12 June 1917) *Hungarian geologist & physician*.

Posewitz obtained his medical degree in 1874 from the University of Budapest, and then worked several years in the Freiberg mining district. In 1879, he traveled as a surgeon to the Dutch East Indies, where he spent his free time exploring the region. In 1887, he entered the geological survey of Borneo, becoming divisional geologist in 1897, and being named divisional geologist in 1908. He performed considerable geological work on the island, which is still of value.

REFERENCES: *Földtani Közlöny*: 48 (1918), p. 83-83, 172-173, portrait. • Internet search. • Lambrecht & Quenstedt, *Catalogus*, 1938: p. 343. • *Magyar Életrajzi Lexikon*. • Sarjeant, *Geologists*, 1980: 3, p. 1911.

**3957. — German, 1889** [First edition].

Borneo. Entdeckungsreisen und Untersuchungen. Gegenwärtiger Stand der geologischen Kenntnisse. Verbreitung der nutzbaren Mineralien. Berlin, Friedländer 1889.

8°: xxvii, 385 p., 29 cross-sections, 4 maps, illus.  
PAGE SIZE: 270 x 180 mm.

VERY SCARCE. A lengthy and in-depth description of the mines and mineral resources of the island of Borneo, by an author who spent many years exploring the land. The work describes the known mines, mineralized regions, and minerals of this highly mineralized island located in the South China Sea.

REFERENCES: BL. • NUC.

**3958. English transl., 1892:** Borneo: Its geology and mineral resources. By Dr. Theodor Posewitz ... Translated from the German by Frederick H. Hatch ... London, E. Stanford, 1892.

8°: xxxii, 495 p., illus., 4 folding maps. "Index to the literature," p. [ix]-xxiii.

VERY SCARCE. Translation by Frederick Henry Hatch [1864-1932] of *Borneo, Entdeckungsreisen und Untersuchungen* (1889).

REFERENCES: BL. • NUC.

**POTKONICZKY, Adamus.** *Hungarian.*

**3959. — Latin, 1775** [Dissertation].

*De Metallis Petrificatis Recitatio.* Jenæ, 1775.

8°: [6], 18 p. VERY SCARCE.

REFERENCES: BL: [7306.e.11.(1.)]. • LKG: XVI 81.

**POTT, Johann Heinrich.** (BORN: Halberstadt, Germany, 1692; DIED: Berlin, Germany, 20 or 29 March 1777) *German chemist.*

Pott studied under FRIEDRICH HOFFMANN and GEORG ERNST STAHL at the University of Halle, receiving his M.D. in 1716. In 1737, he was appointed professor of theoretical chemistry at the Collegium Medico-Chirurgicum in Berlin. Later, he was appointed professor of practical chemistry. He also held the position of director of the Royal Hofapothecary. His specialty of research was on the effects of high temperatures on mineral substances.

REFERENCES: ADB: 26, 486. • *Biographie Universelle*: 35, 530. • DBA: I 975, 52-82. • DSB: 11, 109 [by F. Greenaway]. • Ferguson, *Bibliotheca Chemica*, 1906: 2, 221-2. • Hufbauer, *German Chemical Community*, 1982: 176-7. • Meusel, *Verstorbenen Deutschen Schriftsteller*, 1802-16: 10, 507-10. • *Nouvelle Biographie Générale* (Hoefer): 40, col. 901. • Partington, *History of Chemistry*, 1961-70: 2, 717-22. • Poggendorff: 2, cols. 509-10. • Sarjeant, *Geologists*, 1980: 3, 1913. • Schaedler, *Biographisch Handwörterbuch*, 1891: 97. • WBI. • *World Who's Who in Science*: 1367.

**3960. — Latin, 1739-41.**

[In red:] D. Johannis Henrici Pott | [in black:] Chym. et Medic. Profess. S.S. Pruss. Sodal. | Observationum | et | Animadversionum | [in red:] Chymicarum | [in black:] praecipue circa | [in red:] Sal Commune | Acidum Salis Vi- | nosum | [in black:] et | [in red:] Wismuthum | [in black:] Versantium | Collectio Prima. | [double rule] | [in red:] Berolini, | [in black:] Apud Johannem Andream Rüdigerum, 1739.

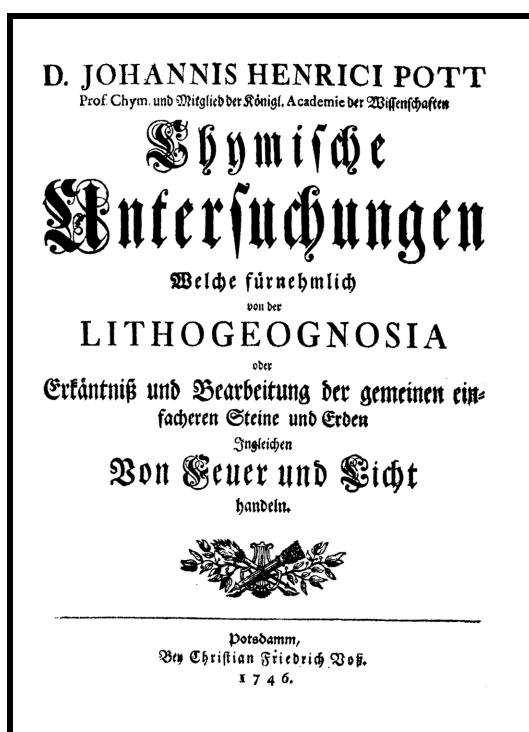
2 vols. [VOL 1: 1739] 4°: )(4 A-Aa<sup>4</sup> Bb<sup>3</sup> (\$3 signed); 102ℓ.; [8], [1]-197, [1] p. [VOL 2: 1741] 4°: )(2 A-O<sup>4</sup> P<sup>2</sup> Q<sup>2</sup> (\$3 signed); 62ℓ.; [4], [1]-120 p.

CONTENTS: [Vol 1] [2 pgs], Title page, verso blank; [1 pg], Dedication; [1 pg], Blank; [4 pgs], "Lector Philo-chymice."; [1]-108, "De Sale Communi."; [109]-133, "De Acido Salis Vinoso."; [134]-197, "De Wismutho."; [1 pg], "Sphalmata Typothetica."

[Vol 2] [2 pgs], Title page, verso blank; [2 pgs], "Lectori Philo-Chymico."; [1]-53, "De Zinco."; 54-104, "De Borace."; 105-120, "De Pseudogalena."

RARE. A collection of dissertations by Pott including monographs on bismuth, zinc and borax. Through his researches, Pott had extended the knowledge of several metals and earths. Zinc, which had only recently been isolated, is shown to be a metallic element. For the first time, he also fully describes Bismuth. These monographs were useful to T.O. BERGMAN in composing his own dissertations on the same subjects [which see].

REFERENCES: BL: [457.c.31.]. • Cole, *Chemical Literature*, 1988: no. 1056. • LKG: VI 8. • NUC: [NP 0519840].



CHYMISCHE UNTERSUCHUNGEN, 1746

**3961. — German, 1746** [First edition].

D. Johannis Henrici Pott | Prof. Chym. und Mitgleid der Königl. Academie der Wissenschaften | Chymische | Untersuchungen | Welche fürnehmlich | von der | Lithogeognosia | oder | Erkantniß und Bearbeitung der gemeinen ein= | fachen Steine und Erden | Ingleichen | Von Feuer und Licht | handeln. | [ornament] | [rule] | Potsdamm, | Bey Christian Friedrich Voß. | 1746.

4°: [8], 88 p.

RARE. The *Chymische Untersuchungen* and its two supplements gave the results of a reported 30,000 experiments performed by Pott to discover the



## POTT

secret of making porcelain. The King of Prussia had commissioned Pott to discover the secret for making Meissen porcelain. To achieve his goal, he employed the "dry method," heating to high temperature in a furnace, all manner and mixture of substances, mostly mineral in nature. The range of reactions recorded was a model of comprehensiveness in the chemical study of the time and showed conclusively that relative reactivity could be discovered through planned, interrelated analysis. Pott did not discover the secret to making porcelain and fell out of favor with the King. But his published results had wide relevance to manufacture, and were invaluable for the further development of theories regarding chemical affinity.

REFERENCES: Beekman, *Systematische Mineralogie*, 1906: p. 13 & 35. • Ferguson, *Bibliotheca Chemica*, 1906: 2, 221-2. • Kobell, *Geschichte der Mineralogie*, 1864: p. 63. • LKG: XI 1. • Oldroyd, *Neoplatonic and Stoic Influences*, 1974. • Partington, *History of Chemistry*, 1961-70: 2, 717-22. • Szabadváry, *History of Analytical Chemistry*, 1966: 52.

**3962. Supplement 1, 1751:** D. Johannis Henrici Pott | Fortsetzung | derer | Chymischen | Untersuchungen, | welche von der | Lithogegnosie, | oder | Erkäntniß und Bearbeitung | derer | Steine und Erden | specieller handeln. | [double rule] | Berlin und Potsdam, | bey Christian Friedrich Voß. | 1751.

4°: \*4 A-P4; 64ℓ.; [8], [1]-120 p. PAGE SIZE: 214 x 170 mm.

CONTENTS: [2 pgs], Title page, verso blank.; [6 pgs], "Vorrede."; [1]-120, Text.

VERY SCARCE. The first supplement to the original text of the *Lithogegnosia*.

REFERENCES: Ferguson, *Bibliotheca Chemica*, 1906: 2, 221-22. • LKG: XI 1.

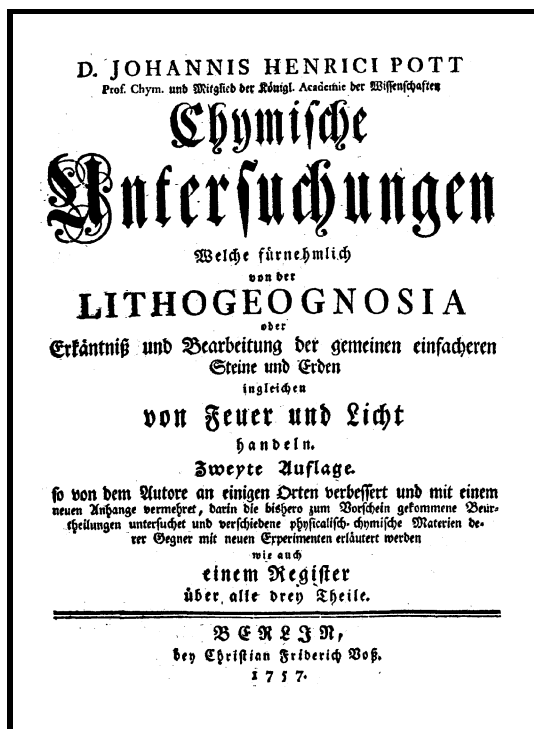
**3963. Supplement 2, 1754:** D. Ioh. Henr. Pott | Zweyte Fortsetzung | derer | Chymischen | Untersuchungen | welche von der | Lithogegnosie | oder | Erkäntniß und Bearbeitung | derer | Steine und Erden | in Anwendung derselben | zur Bereitung Feuersester Gefäße und Tiegel | specieller handeln | nebst Tabellen | über alle drey Theile. | [double rule] | Berlin, | bey Christian Friedrich Voß. | 1754.

4°:  $\pi^1 a^3 b^4 A-S^4 T^2 \chi^2 A-G^5$  \*4 \*\*2; ??ℓ.; [16], [1]-148, [4], [1]-44, [14], [1]-11, [1] p., one plate (showing vessels and tubes; signed F.H. Frisch sc. Berl.). PAGE SIZE: 214 x 170 mm.

CONTENTS: [2 pgs], Title page, verso blank.; [1 pg], "Nachdem die von beyden Theilen, ..."; [1 pg], Blank.; [10 pgs], "Vorrede."; [2 pgs], "Beschreibung | des Ofens."; [1]-148, Text [=mostly tables]; [1 pg], Blank.; [2 pgs], "Allgemeine Tabelle."; [1 pg], Blank.; [1 pg], Sectional title page, "Neuer Anhang | zur | Lithogegnosie, | in welchem | die bisher zum Vorschein gekommene | Einwürfe abgelehnet, | auch verschiedene | Physicalisch=Chymische Materien | untersucht und erläutert werden."; [2 pgs], Blanks.; [3]-44, Text.; [13 pgs], "Register."; [1 pg], Blank.; [1]-11, "D.I.H. Pott | Apologetischer Anhang zu seiner Abhandlung von dem Feuer= | beständigen und zartflüßigen Urin Salze."; [1 pg], Blank.

VERY SCARCE. The second supplement to the original text of the *Lithogegnosia*.

**3964. 2nd edition, 1757:** D. Johannis Henrici Pott | Prof. Chym. und Mitglied der Königl. Academie der Wissenschaften | Chymische | Untersuchungen | Welche fürnehmlich | von der | Lithogegnosia | oder | Erkäntniß und Bearbeitung der gemeinen einfacheren | Steine und Erden | ingleichen | von Feuer und Licht | handeln. | Zweyte Auflage. | so von dem Autore an einigen Orten verbessert und mit einem | neuen Anhang vermehret, darin die bihero zum Vorschein gekommene Beur=



CHYMISCHE UNTERSUCHUNGEN, 1757

theilungen untersucht und verschiedene physicalisch=chymische Materien de= | rer Gegner mit neuen Experimenten erläutert werden | wie auch | einem Register | über alle drey Theile. | [double rule] | Berlin, | bey Christian Friderich Voß. | 1757.

4°: \*3 A-L4; 47ℓ.; [6], [1]-88 p. PAGE SIZE: 214 x 170 mm.

CONTENTS: [2 pgs], Title page, verso blank.; [4 pgs], "Vorrede."; [1]-84, Text.; 85-88, "Zugabe | Einiger Remarquem über eines neueren berühmten Avtoris | Dissertation sur le Feu."

SCARCE. Although called a second edition, this apparently is a reprint of the first edition of *Chymische Untersuchungen* (Postsdamm, 1746) with a new title page and the addition of the two extensive supplements published in 1751 and 1754 [see previous entries].

REFERENCES: Roller & Goodman, *Catalogue*, 1976: 2, 321.

**3965. French transl., 1753:** Lithogéognosie | Ou | Examen Chymique | Des Pierres | Et | Des Terres En Général, | Et du Talc, de la Topaze & de la Stéatite | en particulier, | Avec une Dissertation sur le Feu | & sur la Lumiere. | Par M.J. Pott, Docteur en Médecine, | [...2 lines of titles and memberships...] | Ouvrages traduits de l'Allemand. | [ornament] | A Paris, | Chez Jean-Thomas Herissant, rue | S. Jacques, à S. Paul, & à S. Hilaire. | [double rule] | M DCC. LIII. | Avec Approbation & Privilège du Roi.

2 vols. [VOL 1] 12°: a4 A-S12; ??ℓ.; [i]-viii, [1]-431, [1] p. [VOL 2] 12°: A-L12; ??ℓ.; [1]-267, [5] p.;  $\pi^4 B-L^4 M^3$ ; ??ℓ.; [i]-ciii, [1] p.

CONTENTS: [Vol 1] [i-ii], Title page, verso blank.; iii-viii, "Préface de l'Auteur pour la premiere Partie de cet Ouvrage."; [1]-215, "Essai Pyrotechnique sur la Lithogegnosie, ..."; [216], "Table des Chapitres."; [217]-277, "Examen Pyrotechnique du Talc, ..."; [278]-326, "Examen Pyrotechnique de la Pierre Nommée par les Anciens Steatites, ..."; 327-404, "Essai d'Observations

Chymiques et Physiques sur les Propriétés et les effets de la Lumière et du Feu.”; 405-420, “Supplément de quelques remarques Touchant la Dissertation sur le Feu”; 421-423, “Description du Fourneau de M. Pott.”; 424-431, “Corrections & Eclaircissemens.”; [1 pg], Blank.

[Vol 2] [1-2], Title page, verso blank.; 3-30, “Préface aux amateurs de la connoissance de la Nature.”; [31]-267, “Des jugemens de quelques auteurs modernes sur la nature & la distribution des Terres ...”; [4 pgs], ‘Approbation’ and ‘Privilege du Roi.’; [1 pg], “Fautes à corriger.”; [i], Sectional title page, “[Within a box of double rules:] Table | des effets | des mélanges différents | des terres | de | la Lithogéognosie, | de M. Pott.”; ii-lix, ‘Table des effets ...’; lx-xxi, “Table de l’Examen Pyrotechnique de la Topz de Saxe.”; lxxii-lxxxi, “Table ... du Talc.”; lxxxii-ciii, “Table ... de la pierre ... stéatites ...”; [1 pg], Blank.

SCARCE. Translated by Didier d’Arclais de Montamy [1703-1765] from *Chymische Untersuchungen* (Berlin, 1746).

[Vol. 2] has title: Continuation de la Lithogéognosie pyrotechnique, où l’on traite plus particulièrement de la connoissance des terres & des pierres, & de la manière d’en faire l’examen

“Table des effets des mélanges différents des terres de la lithogéognosie, de M. Pott”: ciii p. at end of v. 2

REFERENCES: Cole, *Chemical Literature*, 1988: no. 1054-1055. • Hoover Collection: no. ??.

### 3966. — Latin, 1738 [Collected dissertations].

D. Johannis Henrici Pott Chem. et Medic. Profess. ... Exercitationes chymica sparsim hactenus editae, jam vero collectae restitutae a mendis repurgatae, variisque notis, experimentis et discussionibus ab autore adauctae, illustratae. Berolini, Apud Johannem Andream Rüdigerum, 1738.

4°: [8], 220 p. Title-pages in red and black; head- and tailpieces. Page number 206 misprinted 207. Includes bibliographical references.

VERY SCARCE. Contents: Six dissertations on chemistry. Praeses for no. 1 and 5 are F. Hoffmann, no. 2 M. Alberti, no. 6, H.P. Juch. Respondents are: No. 1, Johann Heinrich Pott, Halae, 1716; no. 2, Augustus Friedrich Pott, Halae, 1720; no. 3, Johann Ludwig Conradi Marpurgi, 1729; no. 4, Johann Heinrich Rahn, Lugdunum Batavorum, 1732; no. 5, Carolo Hoffmann [sic] Halae, 1732; no. 6, Ephraim Fel. Enhoerningh, Erfordiae, 1735. Cf. DNLM.

(from t.p.) De sulphuribus metallorum. - De auripigmento. - De solutione corporum particulari. - De terra foliata Tartari. - De acido vitrioli vinoso. - De acido nitri vinoso

REFERENCES: Bolton, *Bibliography of Chemistry*, 1893: 1, 750. • Cole, *Chemical Literature*, 1988: no. 1053. • Duveen, *Bibliotheca Alchemica et Chemica*, 1965: p. 653.

### PRAGUER, Henrique.

#### 3967. — Portuguese, 1900.

Geologia | E | Mineralogia | Por | Henrique Prager | [ornate rule] | Bahia | Typ. e Encadernação—Empreza Editor | 80—Rua do Corpo Santo—80 | [short rule] | 1900.

8°: [2], [I]-XIII, [1], [1]-100 p. RARE.

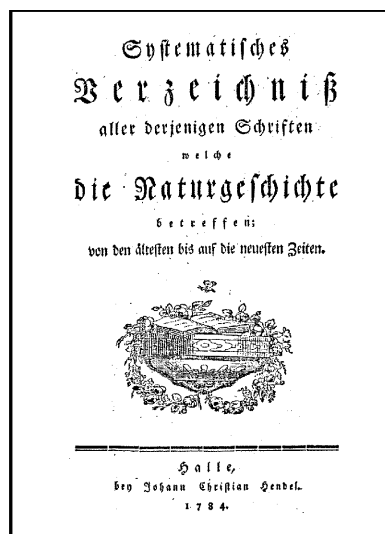
CONTENTS: [2 pgs], Title page, verso blank.; [I]-XIII, “Prologo.”; [1 pg], Blank.; [1]-100, Text.

REFERENCES: NUC.

**PRANGE, Christian Friedrich.** (BORN: 1756; DIED: 1836) *German art expert.*

Prange was a professor of art at the University of Halle.

REFERENCES: DBA: I 977, 79-86. • Hamberger & Meusel, *Gelehrte Teutschland*, 1796-1834. • *Neuer Nekrolog der Deutschen*. • WBI.



SYSTEMATISCHES, 1784

### 3968. — German, 1784 [Bibliography].

Systematisches | Verzeichniß | aller derjenigen Schriften | welche | die Naturgeschichte | betreffen; | von den ältesten bis auf die neuesten Zeiten. | [ornament] | [double rule] | Halle, | bey Johann Christian Hendel. | 1784.

8°: viii, 446 p.

RARE. Published anonymously, but attributed to Prange. This is a classified bibliography listing c2500 entries relevant to natural history from the earliest times to the late 18th century. Petzholdt says that it was excerpted from Cobres' *Deliciae Cobresianae* (2 vols., Augsburg, 1781-2) [which see].

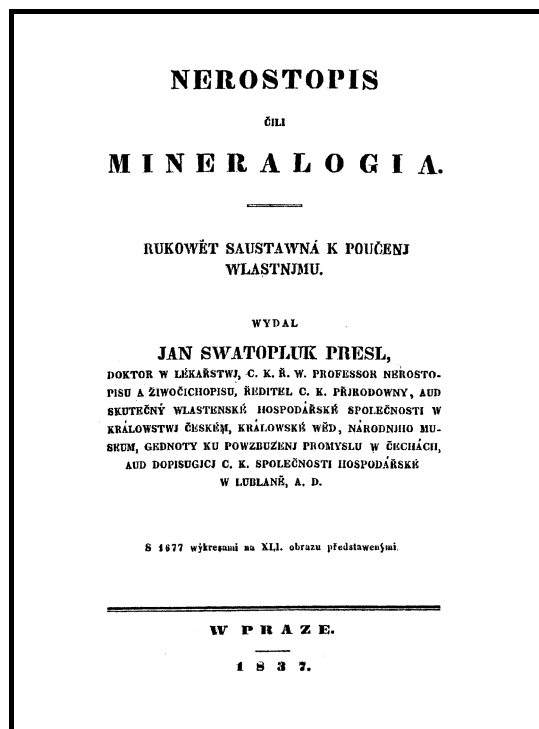
REFERENCES: Besterman, *Bibliography of Bibliographies*, 1965-6: col. 4150. • BL: [727.g.13.]. • Bridson, *History of Natural History*, 1994: Ca101. • Petzholdt, *Bibliotheca Bibliographica*, 1866: p. 546.

**PRESL, Jan Svatopluk.** (BORN: Prag, Czech., 4 September 1791; DIED: Prag, Czech., 6 April 1849) *Czech crystallographer.*

REFERENCES: DBA: I 980, 15-31; 980, 72-73. • Hamberger & Meusel, *Gelehrte Teutschland*, 1796-1834. • Lambrecht & Quenstedt, *Catalogus*, 1938: 345. • Pogendorf: 2, col. 521. • Sarjeant, *Geologists*, 1980: 3, 1921. • WBI. • Wurzbach, *Biographisches Lexikon Österreich*, 1856-91.

### 3969. — Czech, 1837.

Nerostopis | čili | Mineralogia. | [rule] | Rukowět Saustawná K Poučení | Wlastjmu. | Wydal | Jan Svatopluk Presl, | [...7 lines of titles and



NEROSTOPIS ČILI MINERALOGIA, 1837

memberships...] | S 1677 výkresami na XLI. obrazu představenými. | [double rule] | W Praze. | [rule] | 1837.

[TITLE PAGE OF ATLAS:]

Zbjrka | 1677 Hlaopisných Výkresův Na Čtyřiceti Gednom Obrazu Představených, | Náležegj | K Nerostopisu Čili Mineralogii | Jana Swatopluka Presla. | W Praze. | 1837.

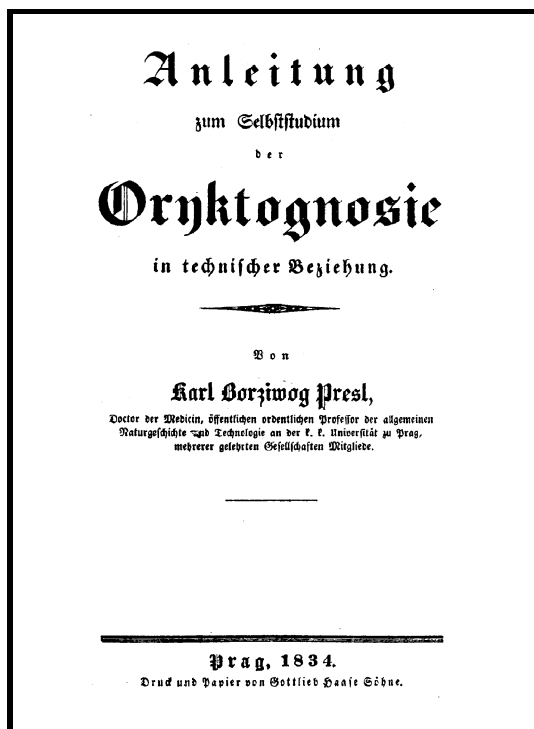
One text volume plus atlas. [Text] 8°:  $\pi^8$  1-388 39-414 422; 326 $\ell$ .; [i]-xvi, [1]-627, [1] p.; [Atlas] Oblong 4°: [2] p., 41 engraved plates. PAGE SIZE: Text: 214 x 130 mm.; Atlas: 244 x 310 mm.

CONTENTS: [Text] [i-ii], Title page, verso blank.; iii-xii, "Předmluva."; [xiii]-xvi, "Obsah."; [1]-600, Text.; [601]-619, "Registrjka."; [620]-627, "Dodawky A Naprawenj Omylův."; [1 pg], "Wyswětlenj zkrácených gmen a slow."

[Atlas] [2 pgs], Title page, verso blank.; 41 engraved plates.

PLATES: The atlas consists of 41 well designed, engraved plates showing 1677 figures of crystal drawings. The plates are signed W. Merklas r.

RARE. Considered a valuable textbook of crystallography, with the plates of the atlas illustrating 1677 crystal drawings. Presl relies upon the earlier works of Haiüy, Mohs and Naumann. The text covers the basics of crystallography and mineralogy including physical and chemical properties, which is followed by a descriptive mineralogy. Throughout references are given to other authors. An index is included at the end. The atlas contains complex drawings reproducing many crystal forms that were new and the result of



ANLEITUNG ZUM SELBSTSTUDIUM, 1834

Presl's crystallographic researches.

**PRESL, Karel Bořiwog.** (BORN: Prag, Czech., 17 February 1794; DIED: Prag, Czech., 2 October 1852) *Czech mineralogist.*

REFERENCES: ADB. • DBA: I 980, 32-47; 980, 74. • Hamberger & Meusel, *Gelehrte Teutschland*, 1796-1834. • Lambrecht & Quenstedt, *Catalogus*, 1938: 345. • Poggendorff: 2, col. 521. • Sarjeant, *Geologists*, 1980: 3, 1922. • WBI. • Wurzbach, *Biographisches Lexikon Österreich*, 1856-91.

**3970. — German, 1834.**

Anleitung | zum Selbststudium | der | Oryktognosie | in technischer Beziehung. | [ornate rule] | Von | Karl Borziwog Presl, | [...3 lines of titles and memberships...] | [rule] | [double rule] | Prag, 1834. | Druck und Papier von Gottlieb Haase Sohn.

8°:  $\pi^1$  1-278; 211 $\ell$ .; [i]-[vi], [7]-422 p. PAGE SIZE: 218 x 130 mm. VERY SCARCE.

CONTENTS: [2 pgs], Title page, verso blank.; [i], "Dedication to Andreas Joseph Freiherrn von Stift."; [ii], Blank.; [iii]-vi, "Vorwort."; [7]-9, "Einleitung."; 10-12, "Von der Oryktognosie im Allgemeinen."; 13-118, Text.; [119]-410, "Systematische Beschreibung."; [411]-420, "Inhalt."; 421-422, "Druckfehler und Zusätze."

REFERENCES: NUC: 470, 328 [NP 0563861].

**PRIVATGESELLSCHAFT.**

**3971. — German, 1775-84** [Periodical].

Abhandlungen einer Privatgesellschaft in Böhmen, zur Aufnahme der Mathematik, der vaterländis-

chen Geschichte, und der Naturgeschichte. Zum Druck befördert von Ignaz Edlen von Born. Prag, Gerlichen Buchhandlung, 1775-84.

[VOL 1: 1775] 8°: [8], 224, 223-394, [4] p. [VOL 2: 1776] 8°: [VOL 3: 1777] 8°: [6], 418 p., 2 engraved portraits, 14 engraved plates. [VOL 4: 17 ] 8°: [VOL 5: 17 ] 8°: [VOL 6: 1784] 8°:

RARE. Edited by IGNAZ ELDER VON BORN. The Academie Böhmische Gelehrte Privatgesellschaft (Academy of Learned Private Study in Bohemia) was founded in 1770 by von Born. The academy's focus was on the history, mathematics and natural history of Bohemia, which is reflected in their published oracle that contains interesting papers in mathematics, mineralogy and fossils. The first series of their journal was published in 6 parts, 1775-1784. This Society was afterwards extended and reorganised under the title of Königlich-Böhmische Gesellschaft der Wissenschaften.

**Journal continuation:** *Abhandlungen der Böhmischen Gesellschaft der Wissenschaften*. Prag, Walther, 1785-1789. 4 vols. [1.] 1785, [2.] 1786, 3. 1787 (1788), 4. 1788 (1789).

**Index, 1884:** *Generalregister zu den Schriften der königl. böhm. Gesellschaft der Wissenschaften 1784-1884* [and of the Böhmische gelehrte Privatgesellschaft 1775-1784], zusammengestellt von G. Wegner. Obecný rejstřík, etc. Prag, 1884. xvi, 159 p. [Published under auspices of the societies successor, Královská Česká Společnost Nauk (Prague).]

REFERENCES: BL: [963.h.1-6.]. • Bolton, *Bibliography of Chemistry*, 1893: no. ??.

## PROBIER BÜCHLEIN.

*See also:* Biringucci, Vannoccio.

Fachs, Modestin.

Kertzenmacher, Petrus.

Lochner, Zacharias.

Schindler, Christian Carl.

Schreittmann, Ciriacus.

Zimmerman, Samuel.

The *Probierebüchlein* is a treatise very important for the history of the development of mineral chemistry. Early manuscripts contained much detailed and accurate information concerning the methods of separating gold and silver from other metals and from one another by so-called cementation processes as well as information concerning the preparation and use of the strong mineral acids in the treatment of metals and ores. The *Probierebüchlein* reveals the use of nitric acid and aqua regia in the systematic parting of the metals as developed into a well conventionalized system as well as other techniques in assaying metals and ores. This is the first printed work on assaying, and it displays the art already full-grown, so far as concerns gold and silver, and to some extent copper and lead. It publishes technical details much as they are still practiced in the assayer's office today. However, the random collection of procedures given suggests that the original manuscript was produced by a working assayer who collected together useful snippets of information rather than a coherent discussion of the subject.

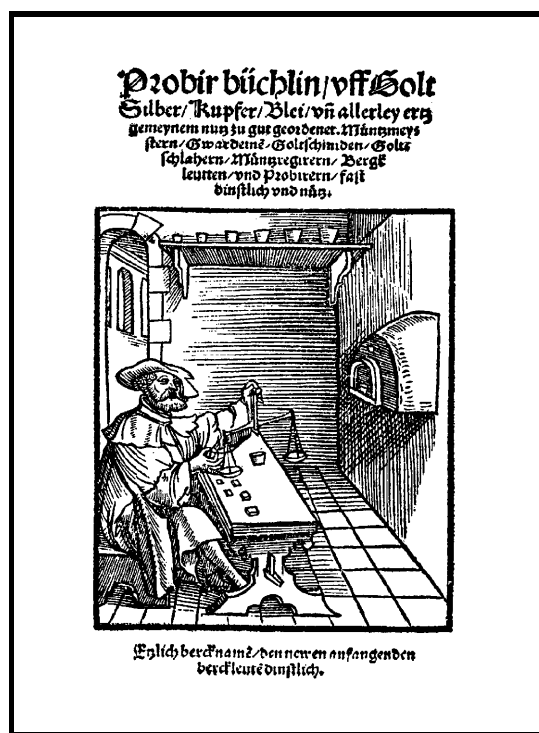
In the fifteenth and sixteenth centuries a large number of small printings of this text appeared. Demand must have been brisk, as it was the only handbook on the subject available to the many jewelers and assayers. Even Agricola plagiarized whole sections from the *Probierebüchlein* in his works on mining. But the rarity of any given edition is remarkable. Many issues are known in only one, two or three surviving copies, making a definitive bibliography difficult. Even which book was the first to appear was for a long time a question. However, based on the previous researches of the Hoovers, Darmstädter, Sisco and Smith, Pieper, and other sources the following list is presented. There may be additional printings not yet known.

### 3972. — German, c1518 [First edition].

Probir büchlin/ vff Golt | Silber/ Kupfer/ Blei/ vñ akkerket ertz | gemeyrtem nutz zu gut geordenet. Můntzmeys | stern/ Gwardeinē/ Goltshmiden/ Goltz | schlahern/ Můntzregirern/ Bergt | leutten/ vnd Probirern/ fast | dinstlich vnd nůtz. | [Large rectangular woodcut showing an assayer working a hand balance in his office.] | Erzlich bercknamē/ den newen anfangenden | berckleutēdinstlich.

8°: [A-H<sup>8</sup> I<sup>2</sup>]; [2]ℓ., numbered 1-58ℓ., [6]ℓ. No date, publisher or place of publication. PAGE SIZE: 140 x 96 mm.

CONTENTS: Based on Darmstadt: [A1r], Title page.; [A1v-A2r], Foreword: "Der almechtig Got hat alle ding



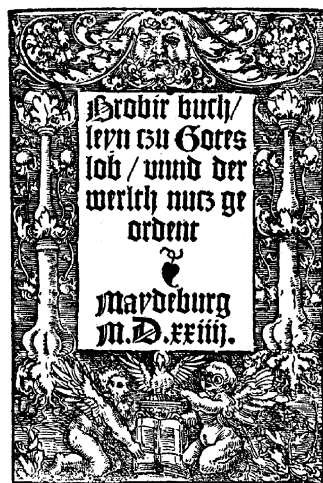
PROBIER BÜCHLIN, c1518

## PROBIER BÜCHLEIN

wol geordent/ ... Got zu lob/ und enthaltung der welt.”; [A2v], Probiern.; 1r-58rℓ., Text.; 58v, “Funtgrub ... Eyn fundtgrub is die erste zech...”; H4r-11r, “Bergnamen.”; 11v-12r, Register.; 12v, Blank.

**EXTREMELY RARE.** The place and publication of this early edition is cloaked in mystery. However, most authorities place this as the first edition of the *Probierebüchlein*. At the Herzog-August Bibliothek in Wolfenbüttel, a copy of this book is bound up with editions of the *Bergbüchlein* and a mathematical work that are both dated 1518. This led Darmstädter to conclude it was of the same vintage, and assign it to the Schöffer Press at Worms. Like the 1518 *Bergbüchlein* this edition of the *Probir Büchlein* contains the ‘Bernamen’ as some of the subsequent editions do not. Further research by Benzing of publications from Schöffer’s press shows that based on the typeface and the general appearance of the title page this is a circa 1518 publication from Schöffer’s firm. This reaffirms Darmstädter’s conclusion, which Pieper also accepts. Only Sisco and Smith dissent, basing their evidence on the stylistic quality of the text, and place this edition after the 1524 and 1527 printings.

**REFERENCES:** Benzing, Josef. “Peter Schöffer d.J. zu Worms und Seine Drucke (1518-1529),” *Wormsgau*, 4 (1961-2), p. 109. • Darmstädter, *Berg-Büchlein*, 1926: p. 10, 25-36, 62-65. • Pieper, W., *Ulrich Rülein von Calw und sein Bergbüchlein*. Berlin, 1955: pp. 150, 176, 182, 189. • Sisco & Smith, *Bergwerk- und Probierebüchlein*, 1949: p. 164 [Edition C]. • Stillman, *Story of Early Chemistry*, 1924: pp. 300-309.



PROBIER BUCH, 1524

**3973. 1524:** [Contained within an elaborate woodcut border:] Probir buch/ | leyn zu Gotes | lob / vnnnd der | werlich nutz ge | ordent | [ornament] | Maydeburg | M.D.xxiii.

8°: [A-H<sup>8</sup> I<sup>7</sup>]; 71ℓ. **COLOPHON:** Gedruck jn der Kayserliche Stat Maydeburg durch Hanss Knappe den Jungenen Mit tzuthat Hanssen Dornss Im M D XXIIIJ. **PAGE SIZE:** 142 x 98 mm.

**CONTENTS:** Based on Darmstadt: [A1r], Title page. [A1v-A2v], “dem vorsichtigen und weysen/ Hanssen Knoblach/ wonen auff dem Sneberg meynen gunstigen hern Freundt und guten gönner/ ...”; [A3r-A3v], “Gott der

Almechtig hat alle ding woll geordent...”; [A4r-I7r], Text.; [I7v], Colophon.

**EXTREMELY RARE.** Sisco and Smith placed this edition as first in their listing. They based this placement on stylistic considerations in the text. However, it is more likely to be after the printing listed above.

**Reprint, 1792:** Incompletely reprinted in *Magazine für die Bergbaukunde*, 9 (1792), 56-132.

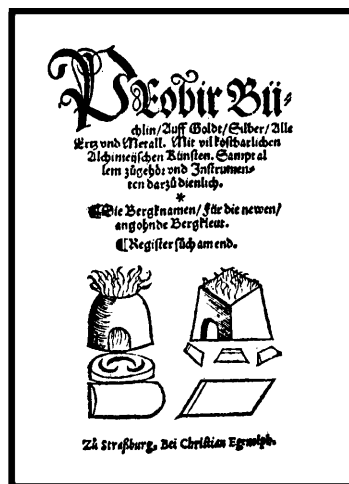
**REFERENCES:** Darmstädter, *Berg-Büchlein*, 1926: p. 64. • *Katalog Bergakademie Freiberg*, 1879: p. 525 [IV. 717.]. • Sisco & Smith, *Bergwerk- und Probierebüchlein*, 1949: p. 164 [Edition A].

**3974. 1527:** Probir Buchleyn: auff Golt/ Silber/ Kupfer/ uñ Bley/ Auch Allerley Ertzt. Müntzmeystern/ Wardeynen/ Golt=wercken/ Goltschlagern/ Golschmiden. Bergleutten unnd probieren. Müntz regieren/ geystlich unnd weltlich. Kauf=leute der Metal/ als Golt/ Silber/ Schwartz=kupfer/ unnd Bley. Wie man die zu nutz handeln und probiren sol. Den allen hier oben geschrieven dienen zu haben nutz unnd gutt. Getruckt im Jar M.D.XXVII.

8°: [A-F<sup>8</sup> G<sup>2</sup>]; [6]ℓ., 89 p. **EXTREMELY RARE.**

**CONTENTS:** Based on Darmstadt: [A1r], Title page. [A1v], Blank.; [A2r-A4v], Register.; [A5r], “Probir buchleyn zu Gotes lob: und der welt nutz geordnet.”; [A5v-A6r], Foreword: “Dem vorsichtigen unnd weysen Hanssen Knoblach...”; [p. 1-89/=A6v-G<sup>2</sup>v], Text beginning “Gott der Almechtig alle ding woll geordnet...”.

**REFERENCES:** Darmstädter, *Berg-Büchlein*, 1926: p. 66. • Sisco & Smith, *Bergwerk- und Probierebüchlein*, 1949: p. 165 [Edition B].



PROBIER BÜCHLIN, 1530

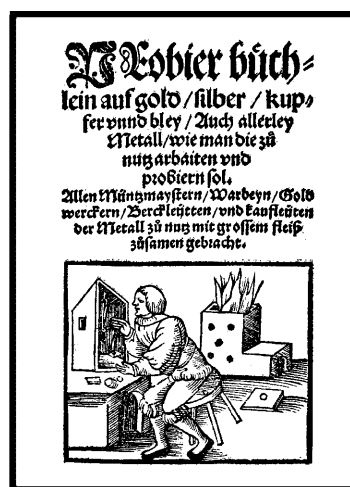
**3975. 1530:** Probir Bü= | chlin/ Auff Goldt/ Silber/ Alle | Ertz vnd Metall. Mit vil kkostbarlichen | Alchmieyschen Künsten. Sampt al | lem zugehdz vnd Instrument= | ten darzü dienlich. | \* | ¶ Die Bergknamen/ für die neuen/ | angehenden Bergleut. | ¶ Register such am end. | [Woodcut showing two furnaces] | Zu Straßburg, Bei Christian Egenolph.

8°: [A-F<sup>8</sup>]; 48ℓ. **COLOPHON:** Zu Strassburg/ Bei Christian Egenolph/ Im Herbstmoñ De Jars/ M.D.XXX. **EXTREMELY RARE.**

**REFERENCES:** Adams Library. • Darmstädter, *Berg-Büchlein*, 1926: [no copy listed]. • *Freilich Sale Catalog*: no. 441. • Sisco & Smith, *Bergwerk- und Probierebüchlein*, 1949: p. 167 [Edition D].



PROBIER BÜCHLEIN, c1530 (A)



PROBIER BÜCHLEIN, 1534

**3976. c1530 (A):** Probiere büch= | lein/ auff Gold/ Silber/ kupffer/ | vnd Bley/ Auch allerley Metall | wie man die zō nutz arbayten vñ | Probieren soll. | Allē Müntzmaystern/ Wardeyn/ Golt | werkern/ Berckleuten/ vñ kauff leutē | der Metall zū nutz mit grossem fleysz zū | samen gebracht. | [Large rectangular woodcut showing an assayer at a balance with a furnace in the background.]

8°: A-G<sup>8</sup> H<sup>6</sup>; 62ℓ.; numbered 1-61ℓ., [1]ℓ. Gothic type. Title vignette. Ornamental initial beginning text. PAGE SIZE: 152 x 102 mm.

EXTREMELY RARE. This book was published in Augsburg by Heinrich Steyner.

REFERENCES: Darmstädter, *Berg-Büchlein*, 1926: [no copy listed]. • *Freilich Sale Catalog*: no. 440. • Honeyman Sale: 6, 2540. • Hoover & Hoover, *Agricola*, "De Re Metallica", 1912: p. 612-4. • Hoover Collection: no. 660 [Dates it between 1524 and 1534]. • Norman Catalog: 2, 1759. • Norman Sale Catalog: no. 165. • Sisco & Smith, *Bergwerk- und Probirbüchlein*, 1949: p. 168 [Edition E].

**3977. c1530 (B):** Probiere buech= | lein/ auff Gold/ Silber/ kupffer/ | vnd Bley/ Auch allerley Metall | wie man die zō nutz arbayten vñ | Probieren soll. | Allē Müntzmaystern/ Wardeyn/ Golt | werkern/ Berckleuten/ vñ kauff leutē | der Metall zū nutz mit grossem fleysz zū | samen gebracht. | [Large rectangular woodcut showing an assayer at a balance with a furnace in the background.]

8°: A-G<sup>6</sup> H<sup>7</sup>; 62ℓ.; numbered 1-61ℓ., [1]ℓ. Gothic type. Title vignette. Ornamental initial beginning text. Variant issue of the preceding. Note the spelling of 'Buechlein' on the title page. PAGE SIZE: 146 x 89 mm. EXTREMELY RARE.

REFERENCES: Darmstädter, *Berg-Büchlein*, 1926: [no copy listed]. • *Freilich Sale Catalog*: no. 443.

Bergwerk vnd Probirbüchlin. für die Bergk vnd ferwerker / Goldschmid / Alchimisten vnd Künstner. (Franckfurt am Mayn, 1533).

See: Rüllein Von Calw, Ulrich.

**3978. 1534:** Probiere büch= | lein auf gold/ silber/ kup= | fer vnnnd bley/ Auch allerley | Metall/ wie man die zū | nutz arbayten vnd | probiern sol. | Allen Müntzmaystern/ Warbeyn/ Gold | werckern/ Berckleuten/ vnd kaufleuten | der Metall zū nutz mit grossem fleiß | zūsammen gebracht. | [Large rectangular woodcut showing an assayer at a balance with a furnace in the background.]

8°: [I]-LXIIℓ.; 62ℓ. Woodcut illustrations on leaves XVv and XVIr. COLOPHON: Getruckt zu Augspurg durch Heinrich Steyner/ am III. Julij M.D.XXXIII Jars. EXTREMELY RARE.

CONTENTS: Based on Darmstadt: Ir, Title page.; Iv-LXIV, Text beginning: "Gott der almechtig alle ding wolgeordnet ..."; LXIIr, Colophon.; LXIIv, Blank.

REFERENCES: Darmstädter, *Berg-Büchlein*, 1926: p. 72-3. • *Katalog Bergakademie Freiberg*, 1879: no. 525 [IV. 715.]. • Sisco & Smith, *Bergwerk- und Probirbüchlein*, 1949: p. 169 [Edition F].

**3979. 1546:** Probiere Biechlin/ auff Gold/ Silber/ Kupffer/ unnd Bley/ Auch allerley Metal/ wie man die zu nutz arbayten unnd Probiern soll. Allen Müntz=mayster/ Wardeyn ... zu nutz mit grossem fleysz zusammen gebracht. M.D.XXXXVI.

8°: [I]-LXIIℓ.; 62ℓ. Woodcut illustrations on leaves XVv and XVIr. COLOPHON: Gedruckt zu Augspurg durch Hainrich Stainer.

CONTENTS: Based on Darmstadt: [Ir], Title page.; [Iv]-IIr, Foreword: "Gott de Allmächtig/ hat alle ding wol geordnet..."; IIv-LXII, Text.

EXTREMELY RARE. Darmstaedter describes this edition as having on the title page "a rather crude woodcut of an assayer at a balance, with a furnace in the background." He was describing a copy at the Stadtbibliothek of Frankfurt (Main). This copy was lost in World War II.

REFERENCES: Darmstädter, *Berg-Büchlein*, 1926: p. 80-1. • *Katalog Bergakademie Freiberg*, 1879: p. 525 [IV. 715.]. • Sisco & Smith, *Bergwerk- und Probirbüchlein*, 1949: p. 170 [Edition G].

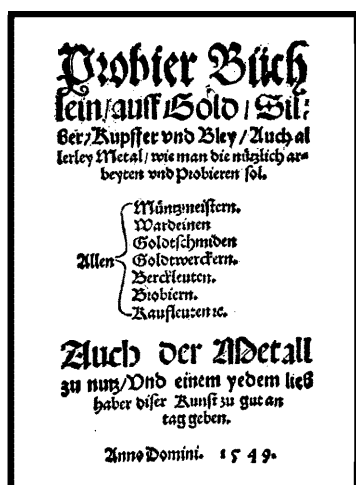
**3980. 1549:** Probiere Büch | lein/ auff Gold/ Sil: | ber/ Kupffer/ vnd Bley/ Auch al | lerley Metal/ wie man die nützlich ar= | beyten vnd Probieren sol. | Allen [Next 7 lines braced on the left:] Münzmeistern. | Wardienen | Goldtschmiden | Goldtwerckern. | Berckleuten. | Biobiern. | Kaufleuten ꝛc. | Auch der Metall | zu nutz/ Vnd einem yedem ließ | haber diser Kunst zu gut an | tag geben. | Anno Domini. 1549.

8°: [A-H<sup>8</sup> I<sup>5</sup>]; numbered 1-69ℓ. PAGE SIZE: 140 x 95 mm. EXTREMELY RARE.

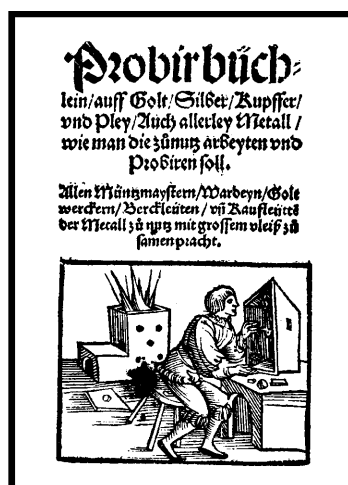
CONTENTS: Based on Darmstadt: [1r], Title page.; [1v], Blank.; 2r-69v, Text.

REFERENCES: Darmstädter, *Berg-Büchlein*, 1926: p. 81-2. • *Freilich Sale Catalog*: no. 442 [A.G. Werner's copy]. • *Katalog Bergakademie Freiberg*, 1879: p. 525 [IV. 715.]. • Sisco & Smith, *Bergwerk- und Probirbüchlein*, 1949: p. 171 [Edition H].

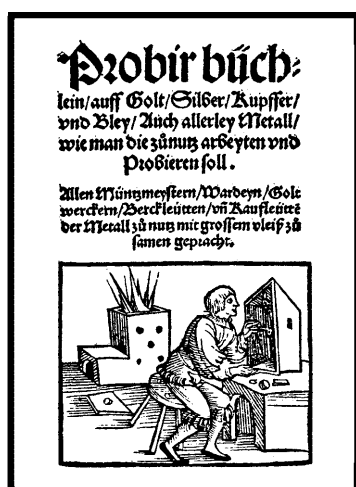
**3981. No Date (A):** Probir büch= | lein/ auff Golt/ Silber/ Kupffer/ | vnd Bley/ Auch allerley Metall/ | wie man die zūnutz arbayten vnd | Probieren soll. | Allen Müntzmeystern/ Wardeyn/ Golt | werckern/ Berckleuten/



PROBIER BÜCHLEIN, 1549



PROBIER BÜCHLEIN, NO DATE (B)



PROBIER BÜCHLEIN, NO DATE (A)



PROBIER BÜCHLEIN, 1574

vñ Kaufleüttē | der Mettal zñ nutz mit grossem vleiß zñ | samen gebracht. | [Large woodcut showing an assayer at a balance, with a furnace in the background.]

8<sup>o</sup>: 62<sup>l</sup>. Same as the next edition, with minor changes to typography (note 'Berckleütten' on the title page). EXTREMELY RARE.

REFERENCES: BL. • Darmstädter, *Berg-Büchlein*, 1926: [no copy listed]. • Sisco & Smith, *Bergwerk- und Probirbüchlein*, 1949: p. 172 [Edition I].

**3982. No Date (B):** Probir buech= | lein/ auff Goldt/ Silber/ Kupffer/ | vnd Bley/ Auch allerley Metall/ | wie man die zünutz arbeyten vnd | probieren soll. | Allen Müntzmeystern/ Wardeyn/ Goldt | werckern/ Berckleuten/ vñ Kaufleüttē | der Mettal zñ nutz mit grossem vleiß zñ | samen gebracht. | [Large woodcut showing an assayer at a balance, with a furnace in the background.]

8<sup>o</sup>: 62<sup>l</sup>. Same as the previous edition, with minor changes to typography (note 'Berckleuten' on the title page). EXTREMELY RARE.

REFERENCES: Darmstädter, *Berg-Büchlein*, 1926: [no copy listed]. • Sisco & Smith, *Bergwerk- und Probirbüchlein*, 1949: p. 173 [Edition J].

**3983. 1574:** Probier | Büchlein Auff | Goldt/ Silber/ Ertz vnnd | Methal/ Mit vil köstlichen Alchi= | mistischen

Künsten/ Sampt aller zu= | gehö/ auch Instrumenten darzu | dienstlich. | Mehr des Goldfärbens beson= | dere Kunststücklin. | Item ein erklärungs der Bergknamen/ | für die neuen angehenden Bergt= | leuth. | Alles mit sonderm fleiß für die Liebhaber der | Kunst beschrieben. | [Woodcuts of two furnaces.] | Getruckt zu Franckfort am Main/ 1574.

8<sup>o</sup>: A-K<sup>8</sup> (K8 blank).; numbered 1-78<sup>l</sup>. [1]<sup>l</sup>. Title in red and black. Title vignette Ornamental initials and tailpieces. COLOPHON: Getruckt zu Franckfort am Mayn/ Bey Christian Egenolffs Erben/ In verlegung D. Adami Loniceri/ M. Johannis Cnippij/ vnd Pauli Steinmeyers/ Im jar nach der Geburt Christi vnsers Erlösers/ M.D.LXXIII. EXTREMELY RARE.

CONTENTS: Based on Darmstadt: [1r], Title page. [1v]-3r, Vorrede.; 3v-4v, Register.; 5r-71v, Text.; 72r-78r, "Bercknamen."; 78v, Blank.; 79r, Blank.; 79v, Colophon.

REFERENCES: BL: [446.a.10.(1.)]. • *Catalogue of the Ferguson Collection of Books*: 2, p. 577 [in Am-d. 46.]. • Darmstädter, *Berg-Büchlein*, 1926: p. 90-2. • Ferguson, *Bibliotheca Chemica*, 1906: 2, 226-7. • Hoover Collection: no. 661. • *Katalog Bergakademie Freiberg*, 1879: p. 525 [IV. 723.]. • Sisco & Smith, *Bergwerk- und Probirbüchlein*, 1949: p. 176 [Edition M].



PROBIER BÜCHLEIN, 1580

**3984. 1580:** Probiere | Büchlein Auff | Goldt/ Silber/ Ertz vnd | Methal/ Mit vil köstlichen Alchi= | mistischen Künsten/ Sampt aller zu= | gehör/ auch Instrumenten darzu | dienstlich. | Mehr deß Goldfärbens beson= | dere Kunststücklin. | Item ein erklärungs der Bergknamen/ | für die neuen angehenden Bergtleuth. | Alles mit sonderm fleiß für die Liebhaber der | Kunst beschrieben. | [Woodcuts of two furnaces.] | Getruckt zu Franckfort am Mayn/ 1580.

8°: A-K<sup>8</sup> (K8 blank).; numbered 1-78ℓ., [1]ℓ. Title in red and black. Title vignette Ornamental initials and tailpieces. COLOPHON: Getruckt zu Franckfort am Mayn/ Bey Christian Egenolffs Erben/ In verlegung D. Adami Loniceri/ M. Johannis Cnipij/ Doctor vnd Pauli Steinmeyers/ Im jar nach der Geburt Christi vnsers Erlösers/ M.D.LXXX. EXTREMELY RARE.

CONTENTS: Based on Darmstadt: [1r], Title page. [1v]-3r, Vorrede.; 3v-4v, Register.; 5r-71v, Text.; 72r-78r, "Bercknamen."; 78v, Blank.; 79r, Blank.; 79v, Colophon.

REFERENCES: BL: [446.a.11.(1.)]. • Darmstädter, *Berg-Büchlein*, 1926: p. 93. • Ferguson, *Bibliotheca Chemica*, 1906: 2, 227. • Hoover Collection: no. 662. • Katalog Bergakademie Freiberg, 1879: p. 525 [IV. 724.]. • Sisco & Smith, *Bergwerk- und Probierebüchlein*, 1949: p. 177 [Edition N].



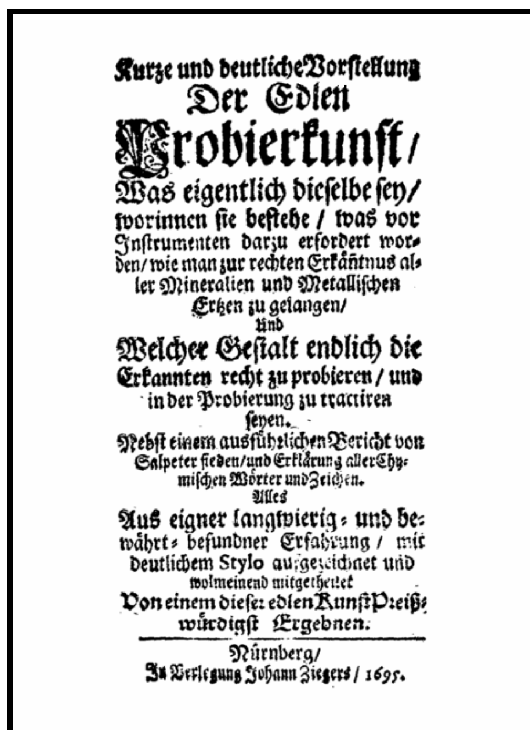
PROBIER BÜCHLEIN, 1608

**3985. 1608:** Probiere | Büchlein auff | Gold/ Silber/ Ertz vnd | Metall/ mit viel köstlichen Alchi= | mistischen Künsten/ sampt aller Zu= | gehör/ auch Instrumenten dar= | zu dienstlich. | Mehr deß Goldfärbens beson= | dere Kunst Stücklin. | Item ein Erklärung der Bercknamen/ | für die neuen angehenden Bergkleuth. | Alles mit sonderen Fleiß für die Liebhaber der | Kunst beschrieben. | Cum Gratia & Priuilegio Cæs. Maiest. | 16 [ornament] 08. | Franckfurt am Mayn/ bey Sitismundo La= | tomo/ in verlegung Vincentii Steinmeyers.

8°: A-K<sup>8</sup> (K8 blank).; numbered 1-78ℓ., 1ℓ. Title in red and black. COLOPHON: Getruckt zu Franckfurt am Mayn/ durch Sigismundum Latomum in Verlegung Vincentij Steinmeyers/ Im Jahr Christi/ M.DC.VIII. EXTREMELY RARE.

CONTENTS: Based on Darmstadt: 1r, Title page.; 1v, Blank.; 2r-3r, Foreword: "Der Allmächtige Gott hat alle ding wol geordnet..."; 3v-4v, Register.; 5r-70r, Text beginning: "Probierens auff Gold ... eygentlicher Bericht und Beschreibung, Probieren ist mancherley ..."; 70v-71v, "Folgen etlich besondere geheyme Kunststück von Glühfarben unnd Goldtfarben..."; 72r-78r, "Der Bergnamen erklärungs und ausslegung. Fundgrub. Ist die erste Zech oder gruben..."; 78v, Blank.; [1r/=K7r], Colophon.; [1v/=K7v], Blank.

REFERENCES: Darmstädter, *Berg-Büchlein*, 1926: p. 97. • Ferguson, *Bibliotheca Chemica*, 1906: 2, 227 ["Reprint of the 1580 edition."]. • Sisco & Smith, *Bergwerk- und Probierebüchlein*, 1949: p. 178 [Edition O].



PROBIERKUNST, 1695

## PROBIER KUNST.

See also: Schindler, Christian Carl.



## PRYCE

**3986. — German, 1695** [First edition].

Kurze und deutliche Vorstellung | Der Edlen |  
 Probierkunst/ | Was eigentlich dieselbe sey/ |  
 worinnen sie bestehe/ was vor | Instrumenten  
 darzu erfordert wor= | den/ wie man zu rechten  
 Erkântnus al= | ler Mineralien und Metallischen  
 | Ertzen zu gelangen/ | Und | Welcher gestalt  
 endlich die | Erkannten recht zu probieren/ und |  
 in der Probierung zu tractieren | seyen. | Nebst  
 einem ausführlichen Bericht von | Salpeter sieden /  
 und Erklärung aller Chy= | mischen Wörter und be=  
 | währt= befundner Erfahrung/ mit | deutlichem  
 Stylo aufgezeichnet und | wolmeinend mitgetheilet  
 | Von einem dieser edlen Kunst Preiß= | würdigst  
 Ergebenen. | [rule] | Nürnberg/ | In Verlegung  
 Johann Zingers/ 1695.

8°: [18], 523 p., engraved frontispiece.

RARE. This rare treatise on the assaying of metallic ores provides a detailed account of the reagents, apparatus, furnaces, and necessary precautions in assaying ores, as well as a list of technical terms for the layman.

REFERENCES: BL: [446.a.13.]. • Darmstädter, *Berg-Büchlein*, 1926: p. 102. • VD17: 3:606584F.

**3987. 2nd edition, 1718:** Kurze und deutliche Vorstellung der edlen Probier-kunst, was eigentlich dieselbe sey, worinnen sie bestehe, was vor Instrumenten darzu erfordert worden, wie man zur rechten Erkântnus aller Mineralien und metallischen Ertzen ... mitgetheilet von einem dieser edlen Kunst preisswürdigst ergebnen. Nuremberg, Johnan Friedrich Rüdiger, 1718.

12°: [16], 523 p. Engraved frontispiece by Honnia showing an assayer in his workshop. PAGE SIZE: 137 x 83 mm. RARE.

REFERENCES: BL: [1651/1865.]. • Ferguson, *Bibliotheca Chemica*, 1906: 1, 487. • *Freilich Sale Catalog*: no. 445.

**3988. 3rd edition, 1766:** Kurze und deutliche Vorstellung der edlen Probier-kunst, was eigentlich dieselbe sey, worinnen sie bestehe, was vor Instrumenten darzu erfordert worden, wie man zur rechten Erkântnus aller Mineralien und metallischen Ertzen ... mitgetheilet von einem dieser edlen Kunst preisswürdigst ergebnen. Nuremberg, Gabriel Nicolaus Raspe, 1766.

12°: [16], 523 p. Engraved frontispiece, numerous wood-cut text devices. VERY SCARCE.

REFERENCES: BL: [725.b.27.]. • *Freilich Sale Catalog*: no. 446.

**PRYCE, William.** (BORN: Redruth, Cornwall, England, 1725?; DIED: Redruth, Cornwall, England, 17 December 1790) *English antiquarian, apothecary & surgeon*.

Pryce had an interest in the Pednandrea mine for ten years. During that time, he made a detailed examination of Cornish mining. He was fascinated by the Newcomen engine and had a chance to study it firsthand because there were more than 70 of those marvelous engines working in Cornwall. (For a discussion of the steam pumps and the engines used in the tin mines of Cornwall, see: Fleming and Brocklehurst, *A History of Engineering*, pp. 114-8.) He had a tremendous interest in ancient Cornwall and formed a renowned collection of antiquities of the region. His *Archæologia Cornu-Britannica* (London, 1790) contains

Pryce's observations including a valuable vocabulary and grammar of the Cornish language.

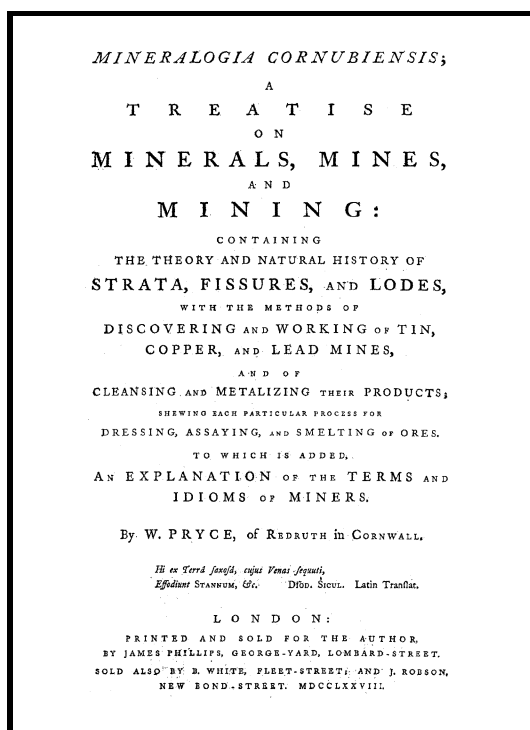
REFERENCES: BBA: I 901, 213-214. • *Biographie Universelle*: 34, 433. • DNB: 46, 429. • Watt, *Bibliotheca Britannica*, 1824. • WBI.

**3989. — English, 1774** [Prospectus].

The Plan of a work, entituled, Mineralogia Cornubiensis et Leges Stannariae, ... Falmouth, [1774?].

2°: VERY RARE.

REFERENCES: BL: [B.551.(5.)].



MINERALOGIA CORNUBIENSIS, 1778

**3990. — English, 1778** [First edition].

Mineralogia Cornubiensis; | A | Treatise | On |  
 Minerals, Mines, | And | Mining: | Containing  
 | The Theory And Natural History Of | Strata,  
 Fissures, and Lodes, | With The Methods Of |  
 Discovering and Working of Tin, | Copper, and  
 Lead Mines, | and of | Cleansing and Metalizing  
 their Products; | shewing each particular process  
 for | Dressing, Assaying, and Smelting of Ores. |  
 To Which Is Added, | An Explanation of the Terms  
 and | Idioms of Miners. | By W. Pryce, of Redruth  
 in Cornwall. | [...2 lines of quotation in Latin...] |  
 London: | Printed And Sold For The Author, |  
 By James Phillips, George-Yard, Lombard-Street.

| Sold Also By B. White, Fleet-Street; And J. Robson, | New Bond-Street. MDCCLXXVII.

2°: \*2 \*\*\*\*1 b-c2 d3 e1 B-Z2 2A-2Z2 3A-3Z2 4A-4P2; 192ℓ.; [36], [i]-xiv, [2], [1]-331, [1] p., engraved frontispiece, 6 engraved plates, 2 folding tables. PAGE SIZE: 340 x 215 mm.

CONTENTS: [2 pgs], Title page, verso blank.; [1 pg], Dedication to George, Prince of Wales, signed William Pryce.; [1 pg], Blank.; [9 pgs], "The | Names | Of The | Subscribers.;" [1 pg], Blank.; [1 pg], "Directions to the Bookbinder.;" [1 pg], Blank.; [5 pgs], "Preface.;" [1 pg], Blank.; [14 pgs], "Contents.;" [i]-xiv, "Introduction.;" [1 pg], "An Account of all the Copper Ores sold in Cornwall the last | fifty years; ...;" [1 pg], Blank.; [1]-295, Text.; [296]-305, "Tables.;" [306], Blank.; [307]-313, "Appendix.;" [314], Blank.; [315]-331, "An | Explanation | Of The | Cornu-Technical Terms and Idioms | Of | Tanners, | Including those which are used in the Lead-Mines and Collieries | of Great-Britain.;" [1 pg], Blank.

PLATES: The plates and tables comprise the following: Frontispiece, Portrait of Pryce showing his bust within an oval frame. A rectangular plaque underneath has the wording "William Pryce." The plate is signed Clifford Pinx, engraved by James Basire. Pl. I (p. 110), A section of Goon-Laz and the Pink Mine in the Parish of St. Agnes, Cornwall, signed Barber. Pl. II (p. 147), The Vergula Divinatoria, &c. Pl. III (p. 160, folding), Steam Fire Engine. Pl. IV (p. 172, folding), Parallel section of the Bullen Garden Mine, signed J. Barber & T. Kitchin. Pl. V (p. 232), Stamping mill. Pl. VI (p. 280), Furnaces for assaying, smelting, etc. Pl. VII (p. 137, folding), Plan and map of the North Downs Mine, signed James Basire. Table I (p. 160), Table Calculating the Power of Fire-Engines. Table II (p. 288), Ticketing Offers for Copper Ores.

VERY SCARCE. *Mineralogia Cornubiensis* is the first great classic devoted to mining in Cornwall and it was considered the standard for its time. It as been called the Cornish "De Re Metallica," with some justification, since it is a comprehensive digest of mining practices in the region. In it are described the mineral structure of the Cornish metal mining areas and the relationships between the various kinds of ore-bearing lodes. This encyclopedic work is embellished with diagrams, glossaries of technical terms and fine engraved plates. A large plan and map of North Downs Mine, a depiction of a section of Bullen Garden Mine, and a detailed engraving of a "Steam Fire Engine" (the Newcomen engine) with a table calculating its power to draw water are included. Pryce also discusses at length the "rag and chain pump" which was still used by manual labor to dewater mines, although the method had fallen into disfavor during it the early 1770s. The author also describes the mineralized zones of Cornwall and their relationships with each other, finally tabulating the knowledge in diagrams and glossaries.

**Facsimile reprint, 1972:** Truro, Bradford Barton, 1972. 8°: 36, xv, 331 p. Reprint in a reduced format of the original 1778 edition.

REFERENCES: Agassiz, *Bibliographia Geologiae*, 1848-54: 4, 138. • BMC: 4, 1620. • Challinor, *History of British Geology*, 1971: 66. • Dana's 7th (Bibliography): 78. • DNB: 16, 429. • Duveen, *Bibliotheca Alchemica et Chemica*, 1965: p. 488. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 90. • Hoover Collection: no. 666. • LKG: XIV 434.

**3991. 2nd edition, 1810?:** *Mineralogia Cornubiensis; a Treatise on Minerals, Mines, and Mining ...* London, 1810?. 2°:

EXTREMELY RARE. Apparently a reissue of the 1778 sheets with a new title page.

**PSellos (Psellus), Michael Constantinos.** (BORN: Nicomedia, Turkey, 1018; DIED: Constantinople, Turkey, 1078) *Byzantine polygraph & philosopher*.

Psellos studied in Athens and Constantinople. He became the leader of the Neoplatonic revival that occurred in Constantinople during the second half of the eleventh century. He wrote a voluminous library of works on the history of his time, medical subjects, Aristotelian commentaries and various other subjects. Any critical study of Byzantine civilization and thought relies heavily upon his publications. Sometimes he is called the 'Younger' to distinguish him from a philosopher of the same name who lived in c870.

REFERENCES: *Nouvelle Biographie Générale* (Hoefer): **36**, 184-6. • Poggendorff: **2**, col. 541. • Rambaud, A., *Études sur l'histoire byzantine*. Paris, A. Colin, 1912. xxiii, 317, [2] p. [Contains a chapter 'Michel Psellos, philosophe et homme d'état byzantin au XIe siècle.', p. 111-171.]: p. 111-171. • Sarton, *Introduction*, 1928-52: **1**, 750-1. • *World Who's Who in Science*: p. 1381.

ΤΟΥ ΣΟΦΩΤΑΤΟΥ ΨΕΛΛΑΟΥ. Pselli de lapidum virtutibus libellus. P. J. Maussaci appendix ad notas suas in Harpocrationem. (Tolosæ, 1615, and other editions).

See: **Plutarch**.

### 3992. — Greek & Latin, 1745.

Psellus | De | Lapidum Virtutibus | Graece Ac Latine | Cum Notis | Phil.JacMaussaci | Et | Joan. Steph. Bernard. | Accedit Fragmentum de Colore Sanguinis ex Do- | ctrina Medica Persarum nunc primum ex Codice | MS. Bibliothecae Lugduno Batavae editum. | [vignette] | Lugduni Batavorum | Apud Philippum Bonk, | MDCCXLV.

8°: \*6 A-C8 Λ2; 31ℓ.; [12], [1]-47, [5] p. Text in Greek and Latin. According to Biogr Univ, 36, 185, this edition, is "une seconde, plus correcte," supplemented by a section by John Stephen Bernard on the color of blood as explained by Persian physicians. PAGE SIZE: 216 x 142 mm.

RARE. First separate edition of this work that treats the therapeutic uses of the precious stones. Previously, it had been printed in combination with a work by PLUTARCH. King notes that Psellus was a contemporary of Marbod, and was reputed to be "the most learned Greek of the eleventh century," and that "amongst his numerous works exists a brief tractate 'On the Virtues of Stones,' describing the uses in medicine of the Diamond, Haematite, Amethyst, Carbuncle, Aeschates, Beryl, Galactites, Amber, Jasper, Idaeus-Dactylus, Crystal, Lychnites, Magnet, Onyx, Caprinus, Sardonyx, Selenites, Emerald, Hyacinthus, Chrysolithus, Chryseletrus, Chrysoprasus, Chalazius, Topazion." King further says that Psellus' notices "are not worth much as regards the natural history of the subject, of which he evidently knew nothing, and, as evidently, regarded as beneath the consideration of a philosopher." This was an attitude that did not change much over the coming centuries. He then recounts examples of the miraculous powers of stones based upon ancient myths.

**Greek, 1898:** A Greek version of the lapidary appears in De Mély & Ruelle's *Les Lapidaires de l'Antiquité*, **3**, fascicle 1, 1898, p. 201-4, which was taken from a fourteenth century manuscript located in the Bibliothèque Nationale, Paris, MS No 1630. No translation for the text is provided, although they note on page xiv that the first printed edition of Psellus lapidary appeared in 1618 and was edited by Maussac (see under Plutarch). The 1745 edition is a reprint of that issue by Etienne Bernard.

**Modern Italian translation, 1980:** P. Galigani, *Il de lapidum virtutibus di Michele Psello*. Introduction, testo critico, tradizione e commento. Firenze, CLUSF, [s.d.]. 121 p.

REFERENCES: Brunet: **4**, 947. • DSB: **9**, 182. • Evans, *Magical Jewels*, 1922: p. 32. • Hirsch, *Biographisches Lexikon*, 1884-8: **4**, 635. • King, *Natural History of Precious Stones*, 1867: p. 13. • Krumbacher, *Geschichte Byzantinischen Litteratur*, 1897. • NLM 18th Century Books (Blake): p. 365. • Sinkankas, *Gemology Bibliography*, 1993: no. 5283 [Title page reproduced]. • Volk, R., *Der medizinische Inhalt der Schriften des Michael Psellos*. München, Institut für Byzantinistik und neugriechische Philologie der Universität, 1990. li, 502 p. [Published as: *Miscellanea Byzantina Monacensia*, Heft 32.].

**PSILANDERHJELM, Nils.** (BORN: Karlskrona, Sweden, 26 November 1706; DIED: Stockholm, Sweden, 4 September 1768) *Swedish metallurgist & government official*.

Psilanderhjelm matriculated at the Bergskollegium in 1728, where he became a student of the mining engineer Anton von Swab. From 1730 to 1736, Psilanderhjelm made an extended tour of the mining regions throughout central Europe and Russia. Upon returning to Sweden, he was appointed chief mine engineer of the Swedish state. After serving his country with honor in a war with Russia, he became chamberlain to King Frederik in 1744. A valuable collection of minerals Psilanderhjelm acquired throughout his career was donated to the Vetenskapskad in 1761, and after his death his personal library was also bequeathed there.

REFERENCES: Almquist, *Bergskollegium*, 1909: p. 258. • *Biographiskt Lexikon*. • Nordin-Pettersson, *Konstsamlingar*, 1971: no. 284. • SBA: Scandinavian Biographical Archive: B-250, 309-312. • *Svensk Uppslagsbok*: **23**, col. 465. • *Svenskt Biografiskt Handlexikon*: **2**, 305. • *Svenskt Biografiskt Lexikon*: **29**, 506\*. • WBI.

### 3993. — Swedish, 1755.

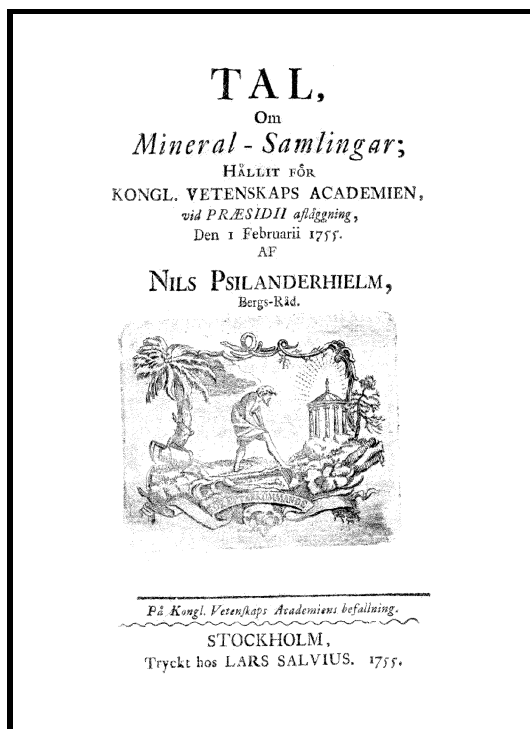
Tal | Om | Mineral-Samlingar; | Hållit för | Kongl. Vetenskaps Akademien, | vid Præsidiij afläggning, | Den 1 Februarii 1755. | Af | Nils Psilanderhielm, | Bergs-Råd. | [vignette] | [rule] | På Kongl. Vetenskaps Akademiens befallning. | [wavy rule] | Stockholm, | Tryckt hos Lars Salvius. 1755.

8°: A8; 8ℓ.; [1]-16 p. Engraved device on the title page. PAGE SIZE: 192 x 120 mm.

CONTENTS: [1-2], Title page, verso blank.; [3]-14, Text.; [15]-16, "...Min Herre!"

VERY SCARCE. Concerns the role of mineral collecting, and the author's belief that collections of minerals will help define mineralogical science.

REFERENCES: BL: [965.k.1.(4.)]. • Gatterer, *Mineralogischen Literatur*, 1798-9: **1**, 256. • *Göttingische gelehrte Anzeigen*: **1756**, 496. • LKG: XV 17. • SWIM: [no copy listed].



TAL OM MINERAL-SAMLINGAR, 1755

**PUIHN, Johann Georg.** (BORN: 1760; DIED: 1793) *German physician*.

REFERENCES: DBA: I 986, 172. • Hamberger & Meusel, *Gelehrte Deutschland*, 1796-1834. • WBI.

### 3994. — French, 1796.

Die Gifte des Mineralreiches. Bayreuth, Bey Johann Andreas Lübecks Erben, 1796.

8°: 247 p. A study on the poisons derived from the mineral kingdom. VERY RARE.

Another edition, 1813: Die Gifte des Mineralreiches. Leipzig, 1813. 247 p.

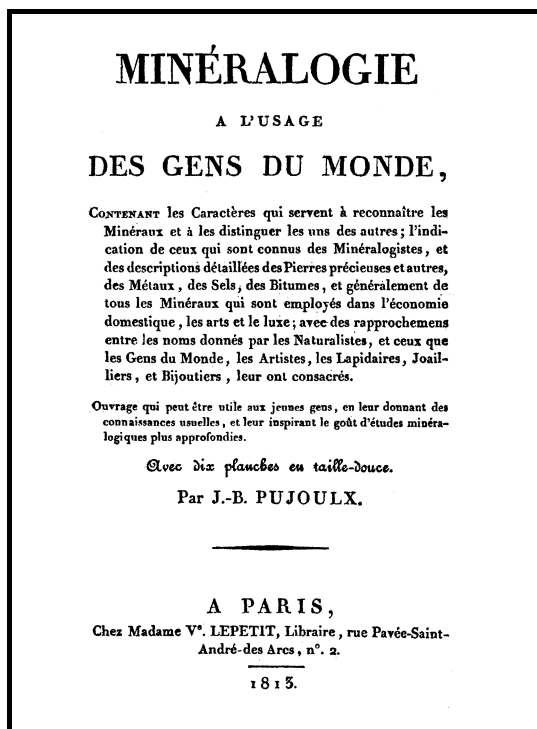
REFERENCES: BL: [726.e.23.].

**PUJOULX, Jean Baptiste.** (BORN: St. Macaire, Dép. Gironde, France, 1762; DIED: Paris, France, 17 April 1821) *French mineralogist*.

REFERENCES: ABF: I 861, 79-91. • Feller, *Biographie Universelle*, 1851. • *Nouvelle Biographie Générale* (Hoefer). • Poggendorff: **2**, col. 544. • WBI.

### 3995. — French, 1813.

Minéralogie | A L'Usage | Des Gens Du Monde, | Contentant les Caractères qui servent à reconnaître les | Minéraux et à les distinguer les uns des autres; l'indi- | cation de ceux qui sont connus des Minéralogistes, et | des description détaillées des Pierres précieuses et autres, | des Métaux, des Sels, des Bitumes, et généralement de | tous les Minéraux qui sont employés dans l'économie | domestique, les arts et le luxe;



MINÉRALOGIE, 1813

avec des rapprochemens | entre les noms donnés  
par les Naturalistes, et ceux que | les Gens du  
Monde, les Artistes, les Lapidaires, Joail- | liers,  
et Bijoutiers, leur ont consacrés. | Ouvrage qui  
peut être utile aux jeunes gens, en leur donnant  
des | connoissances usuelles, et leur inspirant le  
goût d'études minéra- | logiques plus approfondies.  
| Avec dix planches en taille-douce. | Par J.-B.  
Pujoulx. | [tapered rule] A Paris, | Chez Madame  
V<sup>e</sup>. Lepetit, Libraire, rue Pavée-Saint- | André-des  
Arcs, n.º. 2. | [rule] | 1813.

8<sup>o</sup>:  $\pi^2$  1-33<sup>8</sup> 343; 269 $\ell$ .; [4], [1]-533, [1] p.,  
frontispiece, plates 2-10. PAGE SIZE: 214 x 140 mm.  
uncut.

CONTENTS: [2 pgs], Half title page, "Minéralogie | A  
L'Usage | Des Gens Du Monde," verso "Observations sur  
les Gravures."; [Frontispiece].; [2 pgs], Title page, verso  
blank.; 1-522, Text.; 523-533, "Table Générale | Des Noms  
Scienti figures, | Des Noms Vulgaires, | Et Des Termes Du  
Minéralogie."; [1 pg], Blank.

PLATES: The engraved plates are well done black and  
white renditions. The Frontispiece (plate 1) shows the  
interior of a cave at d'Arcy. Plate 2 (p. 80) Appartus,  
blowpipes and a quartz crystal group. Plate 3 (p. 160)  
Agates. Plate 4 (p. 192) Agates. Plate 5 (p. 224) Agates,  
dendrites in sandstone. Plate 6 (p. 320) Basalt "Fingal's  
Cave". Plate 7 (p. 368) Dendrites and agates. Plate 8 (p.  
384) Dendrites and agates. Plate 9 (p. 432) Dendrites and  
gemstones. Plate 10 (p. 456) Marble samples and copper  
crystals.

VERY SCARCE. This work is designed to

describe mineralogy for the young person and provides  
information on distinguishing one mineral species from  
another, as well as descriptions of all the stones, metals,  
salts, and bitumens known. It discusses the importance  
of minerals in the French economy, in art and jewelry.

REFERENCES: LKG: XII 228\*. • *USGS Library Catalog*.

PULAWSKI, Franciszek Xawery Paweł. *Polish  
mineralogist.*

3996. — Polish, 1811.

Wiadomość mineralogiczna, poznawania różnych  
kruszców i kamieni w ziemi znajdujących się,  
i onych odkrywania, a dobytých doświadczenia,  
niemniej wód ciepłych i mineralogii z różnych  
autorów z przydatkiem nowych wiadomości przez  
X. Pulawski. Warszawa, 1811.

16<sup>o</sup>: [1]-132, [4] p.

EXTREMELY RARE. An introduction to the search  
of the various minerals and ores contained in the interior  
of the earth and reviews of the newest discoveries in the  
field of mineralogy. No copy of this title has been traced.

REFERENCES: BL: [no copy listed]. • Fleszarowa,  
*Bibliografia Geologiczna Polski*, 1966: no. 2477. • Koziorow-  
ski, *Materiały do Polskiej Mineralogii*, 1925: [p. 669]. • Leo-  
nard's *Taschenbuch*: 11, p. 603 [review]. • LKG: XII 189. •  
NUC: [no copy listed].

PUZUIREVSKI, Platon Aleksyeevich. *Russian  
mineralogist.*

Puzuirevski was an instructor of mineralogy at the  
University of St. Petersburg.

REFERENCES: *Entsiklopedicheskii Slovar*. • RBA: Rus-  
sian Biographical Archive: 384, 452-460. • *Russkii Bi-  
ograficheskii Slovar*, 1896-1918. • Sokolov, Vladimir Aleksee-  
vich., *P.A. Puzyrevskii—issledovatel' geologii Karelii*. Petroza-  
vodsk, Kareliia, 1977. 65 p., illus. [Biography of Platon  
Aleksyeevich Puzyrevskii, 1830-1871.]. • WBI.

3997. — Russian, 1867 [Bibliography].

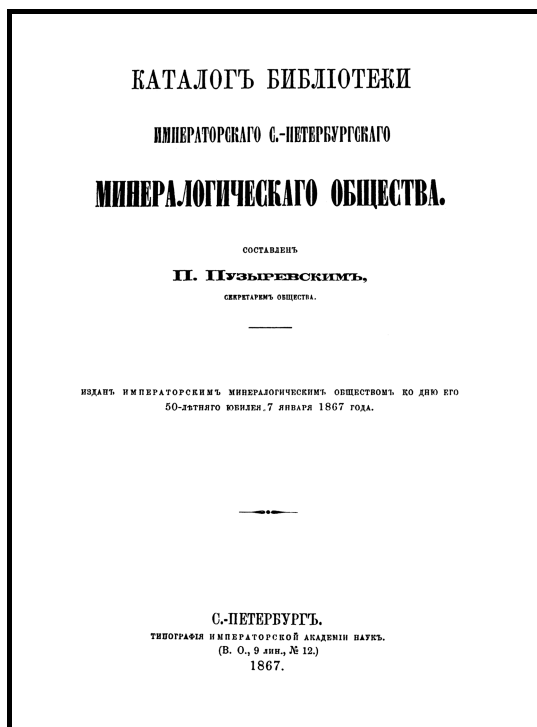
Каталогъ Библіотеки | Императорскаго С.-  
Петербургскаго | Минералогическаго Об-  
щества | Составленъ | П. Пузыревскимъ, |  
Секретаремъ Общества. | [rule] | Изданъ Им-  
ператорскимъ Минералогическимъ Общест-  
вомъ Ко Дню Его | 50-лѣтняго юбилея  
7 января 1867 года. | [ornate rule] | С.-  
Петербургъ. | Типография Императорской  
Академіи Наукі. | (В.О., 9 лин., № 12.) | 1867.

[TRANSLITERATED TITLE:]

Katalog Biblioteki | Imperatorskago S.-Peterburgs-  
kago | Mineralogicheskago Obshchestva | Sostavlen  
| P. Puzyrevskim, | Sekretarem Obshchestava. |  
[rule] | Izdan Imperatorskim Mineralogicheskim Ob-  
shchestvom Ko Dnia Ego | 50-lvtniogo iuvileia 7  
ianvaria 1867 goda. | [ornate rule] | S.-Peterburg.  
| Tipografia Imperatorskoi Akademii Nauki. |  
(V.O., 9 lin., No. 12.) | 1867.

8<sup>o</sup>: [i]-viii, [1]-234 p.

CONTENTS: [i-ii], Title page, verso "Напечатано  
по..."; [iii]-iv, "Предисловіе." [=preface].; [v]-viii,



KATALOG BIBLIOTEKI, 1867

“Оглавление.” [=table of contents].; [1]-184, Text.; [185]-233, “Указатель Авторовъ.” [=indexes].; [1 pg], “Замѣченныя Опечатки.” [=errata].

VERY RARE. In this classified catalog of the library of the Mineralogical Society of St. Petersburg, there are 481 Russian and foreign titles listed under mineralogy. Other subject categories include geology, chemistry, mathematics, etc. It is clearly a working library with virtually no books dated before the late-18th century. There are a total of 2685 books cataloged.

REFERENCES: Besterman, *Bibliography of Bibliographies*, 1965-6: col. 3958. • BL: [11903.i.22.]. • Margerie, *Bibliographies Géologiques*, 1896: no. 2595.

**QUENSTEDT, Friedrich August von.** (BORN: Eisleben, Germany, 9 July 1809; DIED: Tübingen, Germany, 21 December 1889) *German paleontologist, mineralogist & crystallographer.*

In 1830, Quenstedt was appointed assistant mineralogist at the Museum at the University of Berlin. There he undertook the organization of Baron Ernst Friedrich Schlotheim's [1765-1832] recently acquired collection of fossils and minerals. In 1837, he became extraordinary professor of mineralogy and in 1842 ordinary professor of mineralogy and geology at the University of Tübingen, Germany. He remained there until his death.

REFERENCES: ADB: 53, 179-80. • *American Journal of Science*: 3rd Series, 40 (1890), 326. • *Aus d. Heimat. Stuttgart*: 50 (1937), 189-96, portrait. • Barr, *Index to Biographical Fragments*, 1973: 212. • Cleevely, *World Palaeontological Collections*, 1983: 239. • DBA: I 990, 113; II 1034, 322-340. • DSB: 11, 235-6 [by J.G. Burke]. • *Encyclopaedia Britannica*, 11th edition. • Engelhardt, *Universität Tübingen Mineralogie*, 1977: 19-36. • *Geological Magazine*: 27 (1890), no. 5, 237-8. • *Jahres Ver. vaterl. Naturk. Württemberg*: 47



QUENSTEDT

(1891), xxxix-xliv. • Lambrecht & Quenstedt, *Catalogus*, 1938: 349. • *Leopoldina*: 26 (1890), 120-1. • *Neues Jahrbuch für Mineralogie, Geologie und Paläontologie*: 1 (1890), 1-7. • Poggendorff: 2, col. 549-50 & 3, 1079. • *Quarterly Journal of Geological Society of London*: 46 (1890), 51-2. • Sarjeant, *Geologists*, 1980: 3, 1935-6, Suppl. 1 (1986), 2, 713 & Suppl. 2 (1995), 2, 1005. • *Science*: 30 (1909), 237. • *Sitzungsber. math.-phys. Cl. Ak. Wiss. München*: 20 (1890), 430-4. • WBI. • *Zeitschrift der Deutschen geologischen Gesellschaft*: 57 (1905), 295-6.

### 3998. — German, 1840.

Methode | der | Krystallographie. | [tapered rule] | Ein Lehrbuch | für | Anfänger und Geübte | von | Fr. Aug. Quenstedt, | Professor extr. zu Tübingen. | [tapered rule] | Tübingen, | bei C.F. Oslander. | [rule] | 1840.

8°: [i]-xvi, [1]-412 p., 7 plates (crystallographic projections and drawings).

CONTENTS: [i-ii], Title page, verso blank.; [iii], Dedication to Professor Weiss.; [iv], Blank.; [v]-xiv, “Vorrede.”; [xv]-xvi, “Inhaltsanzeige.”; [1], Sectional title page, “A. | Zonenlehre.”; [2], Blank.; [3]-114, Text.; [115], Sectional title page, “B. | Systematik.”; [116], Blank.; [117]-412, Text.; [At end], 7 plates

RARE. A crystallographic textbook that describes the Quenstedt's new method to be used in the science. It is a fanciful method that represents a crystal by projecting on one face of the crystal all the other faces. This curious invention never gained favor and is now a curiosity of crystallographical science. The first part describes the theory of zones and derivation of the projections. The second applies the theory to numerous examples.

REFERENCES: BL. • BMC: 4, 1633. • NUC: 477, 100-2. • Whewell, *History of the Inductive Sciences*, 1858: p. 627.

### 3999. — German, 1848.

Beiträge zur rechnenden Krystallographie. Verzeichniß der Doktoren, welche die philosophische Fakultät in Tübingen unter dem Decanate von

Friedrich August Quenstedt ... 1847/48 ernannt hat. Tübingen, Fues, 1848.

4°: 32 p., one lithographic plate (17 figs.).

VERY SCARCE. Crystallography. Quenstedt's dissertation?.

REFERENCES: BL. • NUC: 477, 100-2.

**4000. — German, 1855** [First edition].

Handbuch | der | Mineralogie | von | Fr. Aug. Quenstedt, | Professor zu Tübingen. | [rule] | Mit vielen Holzschnitten. | [rule] | Tübingen, 1855. | Verlag der H. Laupp'schen Buchhandlung. | — Laupp & Siebeck. —

8°: [i]-viii, [1]-728 p., illus. PAGE SIZE: 225 x 147 mm.

CONTENTS: [i-ii], Half title page, "Handbuch | Der | Mineralogie," verso blank.; [iii-iv], Title page, verso "Druck von H. Laupp Jr in Tübingen."; [v]-viii, "Vorrede."—signed Quenstedt, November 1854.; [1]-703, Text.; [704]-711, "Krystallographische Uebericht."; [712]-716, "Litteratur."; [717]-728, "Register."

VERY SCARCE. A comprehensive mineralogical textbook. It begins with a short history of mineralogy, which is followed in the introductory portion by discussions of goniometers, crystallographic notation and methods of projection, descriptions of the crystal systems, Haüy's and Levy's crystallography, optics, polarized light, optical properties, and pseudomorphs. The descriptive portion of the text reviews the reasons for systematic mineralogy and then presents the descriptive mineralogy. A reference list concludes the work.

REFERENCES: BL. • BMC: 4, 1633. • Dana's 7th (Bibliography): 79. • NUC: 477, 100-2. • USGS Library Catalog.

**4001. 2nd edition, 1863:** Handbuch | der | Mineralogie | von | Fr. Aug. Quenstedt, | Professor zu Tübingen. | [rule] | Zweite verbesserte Auflage. | Mit vielen Holzschnitten. | [rule] | Tübingen, 1863. | Verlag der H. Laupp'schen Buchhandlung. | — Laupp & Siebeck. —

8°: viii, 816 p., illus. VERY SCARCE.

REFERENCES: BL. • BMC: 4, 1633. • Dana's 7th (Bibliography): 79. • NUC: 477, 100-2.

**4002. 3rd edition, 1877:** Handbuch | der | Mineralogie | von | Fr. Aug. Quenstedt, | Professor zu Tübingen. | [rule] | Dritte verbesserte Auflage. | Mit vielen Holzschnitten. | [rule] | Tübingen, 1877. | Verlag der H. Laupp'schen Buchhandlung.

8°: [1]-viii, [2], [1]-997 p., illus.

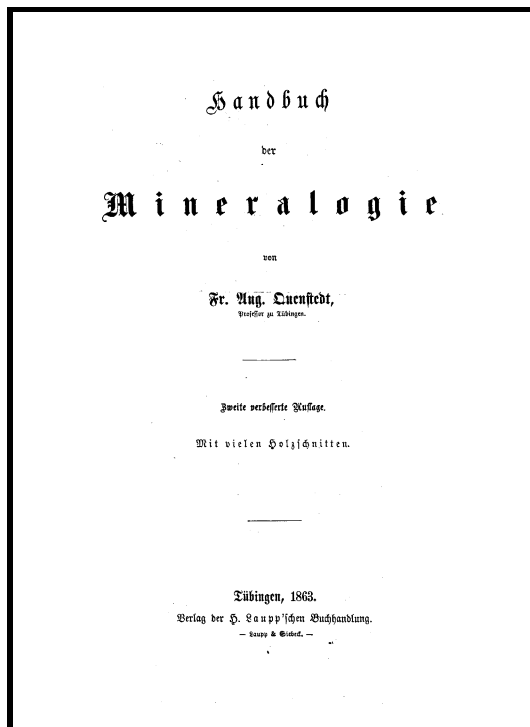
CONTENTS: [i-ii], Half title page, "Handbuch der Mineralogie," verso printer information.; [iii-iv], Title page, verso blank.; [v]-viii, "Vorrede zur ersten Auflage November 1854."; [1 pg], "Vorrede zur zweiten Auflage. September 1862."; [1 pg], "Vorrede zur dritten Auflage."—dated April 1877.; [1]-972, Text.; [973]-978, "Litteratur."; [979]-997, "Register."

VERY SCARCE. An expanded edition, containing in the first ten pages a good concise history of the science and at the end a long list of literature. Oddly, there appears to be no table of contents, although there is a good index.

REFERENCES: BL. • BMC: 4, 1633. • Dana's 7th (Bibliography): 79. • NUC: 477, 100-2.

**4003. Dutch transl., 1867:** Leerboek der Mineralogie. Naar het Hoogduitsch van F. Quenstedt door P. van Eldik Thieme. Amsterdam, C. Brinkman, 1867.

8°: 139 p., 128 illus.



HANDBUCH DER MINERALOGIE, 1863

VERY SCARCE. Dutch translation by P. van Eldik Thieme of *Handbuch der Mineralogie* (2nd ed., Tübingen, 1863).

REFERENCES: BL. • USGS Library Catalog.

**4004. — German, 1873.**

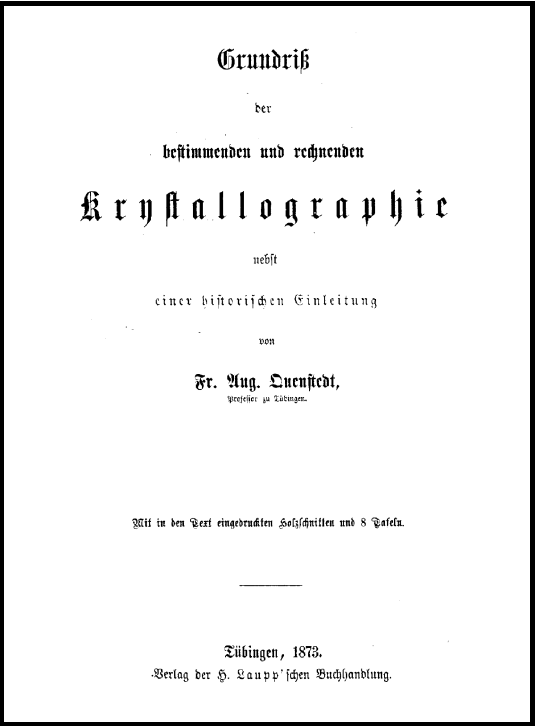
Grundriß | der | bestimmenden und rechnenden | Krystallographie | nebst | einer historischen Einleitung | von | Fr. Aug. Quenstedt, | Professor zu Tübingen. | Mit in den Text eingedruckten Holzschnitten und 8 Tafeln. | [rule] | Tübingen, 1873. | Verlag der H. Laupp'schen Buchhandlung.

8°: [i]-viii, [1]-443 p., 8 plates (folding; showing projection diagrams), illus. PAGE SIZE: 222 x 142 mm.

CONTENTS: [i-ii], Title page, verso "Druck von H. Laupp in Tübingen."; [pages iii-vi were missing from copy examined, but it is probably something like iii-iv, Dedication; v-vi, Contents.]; [vii]-viii, "Vorrede."—dated June 1873.; [1]-443, Text.; [1 pg], Blank.; [At end], 8 plates.

RARE. This advanced text on practical and theoretical crystallographical is unusual in that it contains at its beginning a long, detailed historical introduction to the science. This history begins with Theophrastus and works down to Miller providing the derivations of various crystallographic data to the middle of the nineteenth century. Quenstedt then describes the development of the crystallographic systems, followed by discussions of crystallographic zoning and projections. A final section at the end provides a complete overview of twinning. Through out

QUICHELBERG



GRUNDRIS, 1873

the text, each concept is fully developed through the use of numerous crystal drawings, diagrams, and tables, as well as advanced mathematical derivations.

**Contents:** Geschichtliche Einleitung (pp. 1-74). Entwicklung der Systeme (pp. 75-128). Deductionslehre (pp. 129-185). Zonenlehre. Projection des Feldspathes auf die Geradenfläche (pp. 186-205). Winkelrechnung (pp. 206-358). Anwendung der Kantenzonenschnitte (pp. 359-409). Zwillung und Hemiedrie (pp. 410-443).

REFERENCES: BL. • BMC: 4, 1633. • Dana's 7th (Bibliography): 78. • NUC: 477, 100-2.

**QUERCETANU, Josephus.**

See: Duchesne (quercetanus), Josephus.

**QUESNEVILLE, Gustave Georges.** (BORN: 1846; DIED: ?) *French chemist.*

REFERENCES: ABF: I 864, 232-234.

**4005. — French, 1898.**

De La Double Réfraction Elliptique | et de la | Tétraréfringence du Quartz | dans le voisinage de l'axe. | Par G. Quesneville, | Docteur és Sciences, | Professeur Agrégé a l'École Supérieure de Pharmacie, | Directeur du Moniteur Scientifique. | [ornate rule] Paris, | [In two columns, separated by a vertical rule] Gauthier-Villars et Fils, | Libraires-Éditeurs, | Quai des Grands-Augustins, 55. | [vertical rule] Bureaux | du | Moniteur Scientifique | 12, rue de Buci. | 1898 | (Tous droits réservés.)

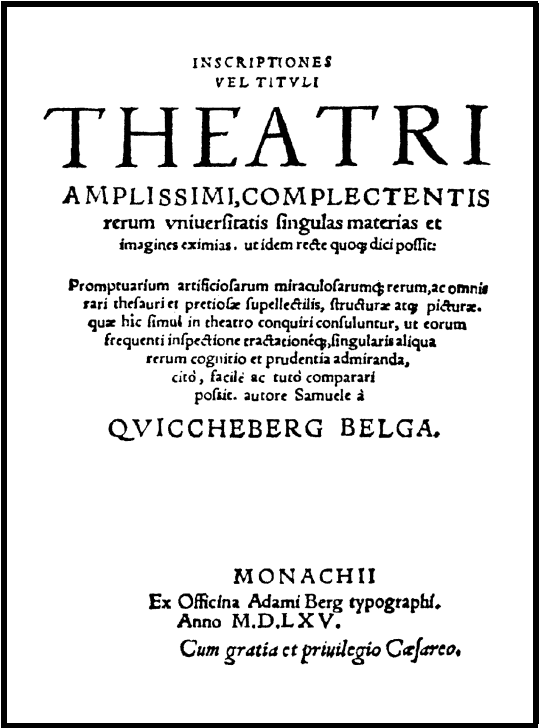
8°: xiv, 360 p., 4 plates, illus. A study of the optical property of quartz that involves its double refraction. VERY SCARCE.

REFERENCES: BL. • BMC: 4, 1634. • CBN: 144, 590-91.

**QUICHELBERG (Quickelberg), Samuel.** (BORN: Antwerp, Belgium, 1529; DIED: Munich, Bavaria, Germany, 1572) *Flemish physician & medical writer.*

Quichelberg went in 1547 to the University of Basel where he studied medicine. Afterwards he went to Freiberg where he became interested in antiquarian pursuits, especially heraldry. Later, he established himself in Ingolstadt, where he opened a medical practice, and published several medical works. In 1553, he came to the attention of Albert V of Bavaria, and he was brought to Munich to organize the antiquarian collections of the Royal family.

REFERENCES: BAB: 551, 358-366. • Biografisch Woordenboek België. • Broeckx, C., Aenteekeningen over Samuel Quickelbergs oudheidskundige arts der XVIe eeuw. Antwerpen, 1862. • DBA: I 990, 234-237; II 1035, 2-3. • Hirsch, Biographisches Lexikon, 1884-8: 4, 649-50 [by C.E. Daniels]. • Jöcher, Gelehrten-Lexikon, 1750-51. • WBI.



INSCRIPTIONES VEL TITVLI THEATRI, 1565

**4006. — Latin, 1565.**

Inscriptiones | Vel Titvli | Theatri | Amplissimi, Complectentis | rerum vniuersitatis singulas materias et | imagines eximias, ut idem recte quoq; dici possit: | Promptuarium artificiosarum miraculosarumque rerum, ac omnis | rari thesauri et pretiosae suppellectilis, structuræ atq; picturæ. | quæ in simul in theatro conquiri cosulantur,

ut eorum | frequenti inspectione tractationeq̃,  
singularis aliqua | rerum cognitio et prudentia  
admiranda, | citò, sacilè ac tutò comparari |  
possit. autore Samuele à | Qviccheberg Belga. |  
Monachii | Ex Officina Adami Berg typographi.  
| Anno M.D.LXV. | Cum gratia et priuilegio  
Cæsareo.

4<sup>o</sup>: [64] p.

RARE. One of the first published guide books for building natural history collections, and considered to be the earliest printed museological tract. Quichelberg carefully categorizes the contents and organization of an ideal museum and library, covering all types of artwork, plants, animals and minerals, ... "a rich theater of objects of the whole universe." He employs for the first time, the term *Wunderkammer* (repository of extraordinary objects), and stresses the importance of preparing collection catalogs.

REFERENCES: Hajos, E.M., "Samuel Quiccheberg's 'Inscriptiones vel tituli theatri amplissimi'," *Bibliotèque d'Humanisme et Renaissance*, 25 (1963), 207-11. • Klemm, *Geschichte der Sammlungen*, 1837: 196. • Murray, *Museums*, 1904: 1, 28 & 3, 117. • Wilson, *History of Mineral Collecting*, 1994: 19-20.

**QUIÑONES DE BENAVENTE, Juan de.** (BORN: 1600; DIED: 1650?) *Spanish physician.*

REFERENCES: Maffei & Rua Figuera, *Bibliografía Mineral*, 1871-2: 2, 75.

**4007. — Spanish, 1632.**

El Monte Vesvvio aora la montaña de Soma. Dedicado á Don Felipe Qvarto el Grande nuestro Señor, Rey Catòlico de las Españas, Monarca Soberano de las Indias Orientales, y Occidentales. Por el Doctor Ivan de Quiñones. Alcalde de su Casa y Corte. (Armas de España). Con licencia. En Madrid, Por Iuan Goncallez, Año 1632.

4<sup>o</sup>: 56*l*, 14 leaves showing views of Vesuvius.

VERY SCARCE. Describes the large eruption of Mount Vesuvius on December 16, 1631, and its effect on the region, particularly in the city of Naples.

REFERENCES: BL. • CBN: 144, 931. • LKG: XIV 572. • Maffei & Rua Figuera, *Bibliografía Mineral*, 1871-2: 2, no. 2057 [Long note]. • NUC: 477, 514.

**4008. — Spanish, 1634.**

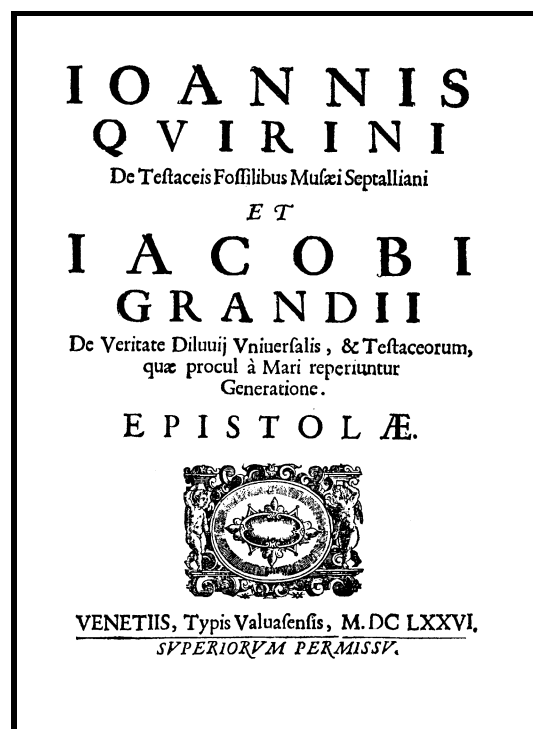
Al excelentissimo señor conde duque el doctor Don Juan de Quiñones ... dedica este Tratado del Carbunco, en que se declaran sus facultades, virtudes, y generos dèl, y de otras piedras, y de las doze que estauan en el pectoral, ô racional del sumo sacerdote, donde ocupaua el quarto lugar... Madrid, Por la viuda de Iuan Gonçalez, 1634.

4<sup>o</sup>: A-G<sup>4</sup> H<sup>2</sup>; 30 numbered *l*. Coat of arms on title page. Ornamental initials; marginal annotations.

RARE. A treatise on the carbuncle stone, that was said to be one of the twelve stones mounted in the breast plate of the High Jewish Priest during the Exodus. It includes descriptions of its supposed virtues and use in

medicine. The other eleven stones of the breast plate are also discussed in a similar way.

REFERENCES: Hoover Collection: no. 669. • Sinkankas, *Gemology Bibliography*, 1993: [no copy listed].



TESTACEIS FOSSILIBUS MUSÆI SEPTALLIANI, 1676

**QUIRINI, Giovanni.**

**4009. — Latin, 1676.**

Ioannis | Qvirini | De Testaceis Fossilibus Musæi Septalliani | Et | Iacobi | Grandii | De Veritate Diluuij Vniuersalis, & Testaceorum, | quæ | procul à Mari reperiuntur | Generatione. | Epistolæ. | [ornament] | Venetiis, Typis Valuasensis, M. DC LXXVI. | [rule] | Svperirvm Permissv.

4<sup>o</sup>: [1]-76 p.

VERY SCARCE. Fossils – mollusks. Deluge – biblical. Jacobo Grandi wrote the tract covering the Deluge. Contains: Joannes Quirinus' [fl. 1676], *De testaceis fossilibus* (pages 1-18), and Jacobus Grandius' [1646-1691] *De veritate diluuii universalis* (pages 19-76). Quirini based his descriptions on geological specimens contained in the cabinet of LODOVICO SETTALA and his son, Manfredo.

REFERENCES: BL. • CBN: 144, 1064. • Gatterer, *Mineralogischen Literatur*, 1798-9: 2, 351-2. • LKG: XIII 9 & XVII 122. • Murray, *Museums*, 1904: 1, 87 & 3, 118. • NUC: 477, 618. • Ward & Carozzi, *Geology Emerging*, 1984: no. 1823.



## RAIMONDI

**QUIST (Svinhufvud), Bengt Andersson.** (BORN: 21 October 1726; DIED: Stockholm, Sweden, 14 October 1799) *Swedish mining expert.*

Quist matriculated at the University of Uppsala in 1743. After graduation he became for several years a consultant on mining and metallurgy. In 1770, he was awarded the title of "Mining Master." Then in 1771, Quist was appointed director of iron fabrication in Sweden. He was elected a member of the Academy of Sciences, Stockholm.

REFERENCES: Almquist, *Bergskollegium*, 1909: p. 259. • Poggendorff: 2, cols. 554-5. • *Svenskt Biografiskt Lexikon*: 29, 577.

### 4010. — Swedish, 1782 [Sale catalog].

Tal, | Innehållande | Några Anmärkningar | Om | En Nyttig | Mineral-Samlare, | Hållet för | Kongl. Vetenskaps Akademien, | Vid | Præsidiij Nedläggande Därstädes, | d. 30 Januarii 1782, | Af | Benct Qvist, Andersson, | Bergmästare och Directeur vid Fin-smidet i Riket. | [vignette] | [ornate rule] | Stockholm, | Tryckt hos Johan Georg Lange, 1782.

8°: A<sup>8</sup> B<sup>7</sup>; 15ℓ.; [1]-30 p.

CONTENTS: [1-2], Title page, verso blank.; [3]-30, Text.

EXTREMELY RARE. Contains Quist's commentary on the merits of forming a mineral collection.

REFERENCES: BL: [965.k.7.(13.)]. • Dryander, *Catalogus Banks*, 1796-1800: 4, p. 23. • LKG: XV 33. • NUC: [no copy listed]. • SWIM: [no copy listed].

**RAAB, Éléonore de.** *Austrian aristocrat.*

See: Born, Iganx Edler Von.



RAIMONDI

**RAIMONDI, Antonio.** (BORN: Milan, Italy, 19 September 1826; DIED: San Pedro near Pacasmayo, Peru, 25 October 1890) *Italian mineralogist & geologist.*

Educated in Milan, Raimondi was appointed the first professor of botany at the University of Lima in 1851. However, he turned his attention to the study of mineralogy

and geology of his adopted country, and was one of the first to publish scientific papers on the region.

REFERENCES: ABE: III 388, 69-72. • ABI: I 825, 188; II 494, 54-55. • Balta, J., *La Labor de Raimondi*. Lima, Imprenta Torres Aguirre, 1926. 87 p. • *ISIS*, 1913-65: 2, 378. • Janni, E., *La Vita di Antonio Raimondi*. Milano, Mondadori, 1940. 280 p. • Lambrecht & Quenstedt, *Catalogus*, 1938: 351. • Paz Soldán, C.E., "Algunas Cartas Inéditas para el Epistolario de Antonio Raimondi," *An. Soc. Peruana Hist. Med.*, 1940, 159-74, 1 facs. • Poggendorff: 3, 1084. • Varese, S., *Antonio Raimondi*, 1965, portrait. • WBI.

### 4011. — Spanish, 1873.

El Departamento | De | Ancachs | Y | Sus Riquezas Minerales | Por | A. Raimondi. | Publicado por Enrique Meiggs. | Lima—Peru | [short rule] | Imprenta de "El Nacional" Por Pedro Lira. | [short rule] | 1873.

2°: [2], [I]-II, [1]-651, [1] p., folding engraved map of the province (33.5 x 24 inches). PAGE SIZE: 325 x 255 mm.

CONTENTS: [2 pgs], Title page, verso blank.; [I]-II, "Prologo."; [1]-633, Text.; [634], Blank.; [635]-651, "Indice."; [1 pg], Blank.

VERY SCARCE. An exhaustive work describing the rich mineral resources of the Peruvian province of Ancachs (or Ancash), located in the west coastal region of the country. Treats in general geography, geology, minerals and meteorology, but the largest part is devoted to descriptions of mineral deposits and the mines and the properties of the individual mineral species found there.

REFERENCES: BL: [10480.g.14]. • NUC: 479, 453-4 [NR 0027684].

### 4012. — Spanish, 1874-1914.

[In black:] Antonio Raimondi. | [ornate rule] | [in red:] El Perú | [in black:] Tomo I. | [ornate rule] | Parte Preliminar. | [ornate rule] | [in red, ornament] | [in black:] Lima. | Imprenta Del Estado, Calle De La Rifa Num. 38 | Por J. Enrique Del Campo. | [short rule] | 1874.

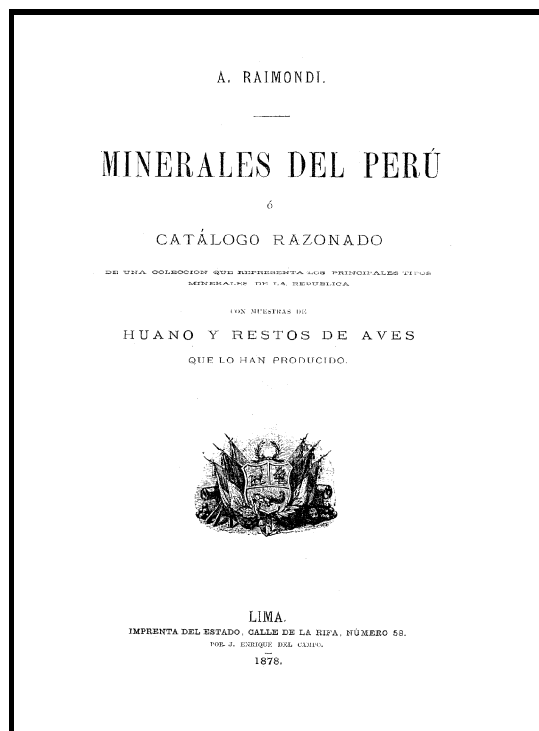
6 vols. [VOL 1: 1874] 8°: 444 p. [VOL 2: 1876] 8°: 475 p., 2 folding maps (70x50cm & 45x33cm), 5 page illus. [VOL 3: 1879] 8°: 614 p., 4 folding maps (40x45cm & 37x57cm & 33x58cm & 37x57cm), 5 page illus. [VOL 4: 1902] 8°: 515 p. [VOL 5: 1913] 8°: 201 p. [VOL 6: 1902] 8°: 52 p., 23 plates. PAGE SIZE: 280 x190 mm.

RARE. Tome I. Parte preliminar [1874]. Tome II. & III. Historia de la geografía del Perú [1876-80]. Tome IV. Estudios mineralógicos y geológicos, primera serie [1902]. Tome V. Estudios mineralógicos y geológicos, segunda serie. Fasc. I [1913].

Very important and monumental six volumes work that includes the two posthumous volumes. It started with the publication of the first volume in 1874 and finished in 1913. The First Book contains: Interesting notes about their reasons for researches and the methods developed for Raimondi in their investigations on Geography, Meteorology, Geology, Mineralogy, Botanic, Zoology, and ethnology, and

Journeys reports between 1851-1869. The second contains historic notes of Peru, with the Spaniard Conquest, the missions and their explorations, the first scientific studies of Peru in the XVII & XVIII centuries, La Condamines Journey, and the territorial evolution of Peru and its Frontiers. The Third Volume is concerning to geographical Explorations, the navigation by almost unknown rivers and places, specially at rain forest or Amazon, more about Perus Frontiers, impressions and maps of these remote, amazing and hard regions. The Fourth has representatives orographic reports, Rocks Classifications, Mineral Waters and so Peruvian islands( Huano). The Fifth has their called geologic itineraries reports wrote along their vast and transversal journeys from Ocean Pacific to Amazon Bowl near of Atlantic. The sixth and last is an ambitious collection of Fossils and is illustrated with 23 plates. Published by Imprenta del Estado por J. Enrique del Campo in Lima.

REFERENCES: BL: [10481.w.4; 5 vols only]. • Internet search. • NUC: 479, 453-4 [NR 0027705].



MINERALES DEL PERÚ, 1878

**4013. — Spanish, 1878** [First edition].

A. Raimondi. | [rule] | Minerales Del Perú | ó | Catálogo Razonado | De Una Coleccion Que Representa Los Principales Tipos | Minerales De La Republica | Con Muestra De | Huano Y Restos De Aves | Que Lo Han Producido. | [ornament] | Lima. | Imprenta Del Estado, Called De La Rifa,

Número 58. | Por J. Enrique Del Campo. | [ornate rule] | 1878.

8°: [i]-vi, [1]-305 p.

RARE. Original edition of the primary source on the mineralogy of Peru.

REFERENCES: BL: [7106.i.22.]. • Dana's 7th (Bibliography): 79. • NUC: 479, 453-4 [NR 0027700].

**4014. Supplement, 1939:** Antonio Raimondi | Minerales del Perú | [rule] | Descripcion Mineralogica Detallada De 1617 | Muestras De La Republica | [rule] | Version Literal Extractada De Sus Cinco Grandes | Cuadernos Manuscritos | Tomo II | Publicado Por El | Supremo Gobierno | Del Peru | 1939.

4°: [I]-X, [1]-609, [1], [9], [1] p. PAGE SIZE: 318 x 208 mm.

CONTENTS: [I-II], Title page, verso blank.; [III]-X, "Prologo."—signed J.A. Broggi, April 1937.; [1], Sectional title page.; [2], Blank.; 3-609, Text.; [1 pg], Blank.; [9 pgs], "Indice."; [1 pg], Blank.

VERY SCARCE. This work was published from a manuscript left by Raimondi and was intended to supplement his *Minerales del Perú* (Lima, 1878). The text describes in great detail a collection of 1617 specimens which Raimondi had physically and chemically analyzed. The specimens are classified according to the province in Peru from which they were found and then by the district within the province. Under each sample, the description provides information on the geological environment, chemical analysis, associations, etc.

REFERENCES: BL. • NUC: 479, 453-4 [NR 0027699].

**4015. French transl., 1878:** A. Raimondi | [wavy rule] | Minéraux Du Pérou | [ornate rule] | Catalogue Raisonné | D'Une Collection Des Principaux Types Minéraux De La République | Comprenant Aussi | Des Échantillons De Guano Et Des Débris Fossilisés | Des Oiseaux Qui L'Ont Produit | [ornate rule] | Traduit de l'espagnol | par | J.-B.H. Martinet | [...6 lines of titles and memberships...] | Paris | Imprimerie Centrale Des Chemins De Fer | A. Chaix Et C<sup>ie</sup> | Rué Bergère, 20, Près Du Boulevard Montmartre | 1878.

8°: [1]-336 p. PAGE SIZE: 232 x 138 mm.

CONTENTS: [1-2], Half title page, "Minéraux Du Pérou," verso blank.; [3-4], Title page, verso blank.; [5]-6, "Introduction."—dated 20 March 1878.; [7]-322, Text.; [323], "Errata."; [324], Blank.; [325]-326, "Table Des Matières."; [327]-336, "Table Alphabétique."

SCARCE. Translation by Jean Baptiste H. Martinet [1840-?] of *Minerales del Perú* (Lima, 1878). The work begins with a short section considering generalities about the minerals of Perú. The observation is made that a high degree of the minerals of economic importance are silver and antimony bearing species. The main text consists of 652 numbered entries, each describing a specific mineral sample. Raimondi provides for each entry information on the exact locality, geological environment, chemistry, and physical characteristics. After describing the non-metallic minerals, the species are divided according to their principal contained metal, i.e. gold, silver, bismuth, copper, iron, etc.

**RAMMELSBERG, Karl Friedrich August.** (BORN: Berlin, Germany, 1 April 1813; DIED: Grosslichterfelde, Germany, 28 December 1899) *German physician, chemist & mineralogist.*

Rammelsberg studied medicine at the University of Berlin, graduating in 1837. He became employed at the University in 1841, being appointed extraordinary professor of chemistry in 1845. In 1851, he was named full professor of chemistry and mineralogy at the Royal Industrial Institute in 1851. Rammelsberg was elected a member of the Berlin Academy of Science in 1874. His

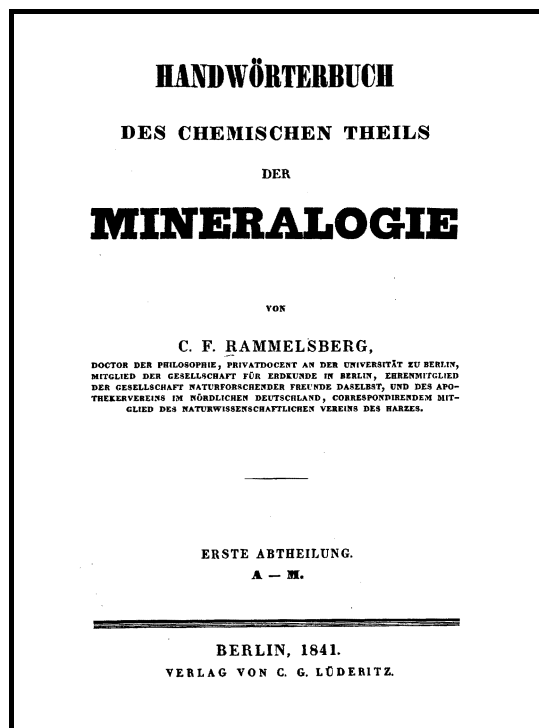
## RAMMELSBERG



RAMMELSBERG

researches greatly improved inorganic and mineralogical chemistry.

REFERENCES: Barr, *Index to Biographical Fragments*, 1973: 213. • *Bulletin de la Société Française de Minéralogie*: 24 (1901), 280-306 [by G. Wyrouboff]. • *Centralblatt für Mineralogie*: 1900, 221-33, 310-29 & 342-57, portait. • DBA: I 997, 271-273; II 1041, 129-144. • DSB: 11, 270-1 [by A. Pabst]. • *Encyclopaedia Britannica*, 11th edition. • *ISIS*, 1913-65: 2, 380. • Poggendorff: 2, cols. 562-4, 3, 1085 & 4, 1209. • Sarjeant, *Geologists*, 1980: 3, 1944. • Schaedler, *Biographisch Handwörterbuch*, 1891: 100. • WBI. • *World Who's Who in Science*: 1391.



HANDWÖRTERBUCH, 1841

### 4016. — German, 1841.

Handwörterbuch | Des Chemischen Theils | Der | Mineralogie | Von C.F. Rammelsberg, | [...5 lines of titles and memberships...] | [short rule] | Erste [- Zweite] Abtheilung. | A-M. [-N-Z.] | [double rule] | Berlin, 1841. | Verlag Von C.G. Luderitz.

2 vols. [VOL 1] 8°: [i]-xxxvi, [1]-442, [2] p.; [VOL 2] 8°: [2], [1]-326 p. PAGE SIZE: 208 x 124 mm.

CONTENTS: [Vol 1] [i-ii], Title page, verso blank; [iii], Dedication to Heinrich and Gustav Rose; [iv], Blank; [v]-x, "Vorrede"; [xi]-xxxii, "Einleitung"; [xxxiii]-xxxvi, Bibliography; [1]-442, Text; [1 pg], "Gedruckt bei A.W. Schade"; [1 pg], Blank.

[Vol 2] [i-ii], Title page, verso blank; [1]-301. Text; [302]-313, "Uebersicht der Formeln der Silikate"; [314]-326, "Zusätze und Berichtigungen".

VERY SCARCE. A classic work in mineralogical chemistry. Both volumes comprised at their publication a complete dictionary describing the chemistry of all known mineral bodies. This was the first work to treat the subject so completely, and in reality the effort was so comprehensive and lucid in its descriptions, the *Handwörterbuch* quickly became the standard reference on the subject. Its dominance was not supplanted until Doelter's *Handbuch der Mineral-Chemie* appeared in 1912.

The reception the *Handwörterbuch* recieved at its appearance may be gaged by Berzelius' review comments:

"Rammelsberg's *Handwörterbuch* has enriched mineralogy with a work of extraordinarily high worth. It contains the minerals in alphabetical order, with details of all known analyses. These are accompanied by fundamental reviews of the analytic methods, frequently with conversions and necessary corrections applied to the derived results, thus fulfilling both requirements usually so difficult to combine, namely completeness and yet not fatiguing detail. The introduction contains a short but clear and ordered presentation of the chemical constitution of mineral and species that reviews the results of the analyses."

"Seldom has a work been more needed and the need so perfectly answered as this fitting account. The deserving author should be greatly thanked for this extremely useful and laborious undertaking, and the work should be included in every library concerned with mineralogical science" (*Jahresberichte*, 1842: 22, 118).

Around 1847, it was recorded that the work would be translated into French by Achille Ernest Oscar Joseph Deléssé, but this apparently never came to fruition.

REFERENCES: Dana's 7th (Bibliography): 79. • NUC. • *USGS Library Catalog*.

4017. First supplement, 1843: Erstes Supplement | Zu Dem | Handwörterbuch | Des Chemischen Theils Der | Mineralogie | Von | C.F. Rammelsberg, | [...8 lines of titles and memberships...] | [tapered rule] | Berlin, 1843. | Verlag Von C.G. Luderitz.

8°: [i]-vi, [1]-160 p. PAGE SIZE: 208 x 124 mm. VERY SCARCE.

CONTENTS: [i-ii], Blank, verso series title page; [iii], Title page; [iv], Blank; v-vi, "Vorrede"; [1]-2,

“Einleitung.”; 3-160, Text.

REFERENCES: Dana's 7th (Bibliography): 79. • *USGS Library Catalog*.

**4018. 2nd supplement, 1845:** Zweites Supplement | Zu Dem | Handwörterbuch | Des Chemischen Theils Der | Mineralogie | Von | C.F. Rammelsberg, | [...8 lines of titles and memberships...] | [tapered rule] | Berlin, 1845. | Verlag Von C.G. Lüderitz.

8°: [i]-vi, [1]-180, [2] p. PAGE SIZE: 208 x 124 mm. VERY SCARCE.

CONTENTS: [i-ii], Blank, verso series title page.; [iii], Title page; [iv], Blank.; v-vi, “Vorrede.”; [1]-4, “Einleitung.”; 5-180, Text.; [1 pg], “Berichtigungen.”; [1 pg], Blank.

REFERENCES: Dana's 7th (Bibliography): 79. • *USGS Library Catalog*.

**4019. 3rd supplement, 1847:** Drittes Supplement | Zu Dem | Handwörterbuch | Des Chemischen Theils Der | Mineralogie | Von | C.F. Rammelsberg, | [...9 lines of titles and memberships...] | [tapered rule] | Berlin, 1847. | Verlag Von C.G. Lüderitz.

8°: [i]-vi, [1]-150, [4] p. PAGE SIZE: 208 x 124 mm. VERY SCARCE.

CONTENTS: [i-ii], Blank, verso series title page.; [iii], Title page; [iv], Blank.; v-vi, “Vorrede.”; [1]-11, “Allgemeines.”; 12-133, Text.; 134-150, “Vergleichende Uebersicht der natürlichen Silicate.”; [4 pgs], Publishers book list.

REFERENCES: Dana's 7th (Bibliography): 79. • *USGS Library Catalog*.

**4020. 4th supplement, 1849:** Viertes Supplement | Zu Dem | Handwörterbuch | Des Chemischen Theils Der | Mineralogie | Von | C.F. Rammelsberg, | [...11 lines of titles and memberships...] | [tapered rule] | Berlin, 1849. | Verlag Von C.G. Lüderitz.

8°: [6], [i]-lviii, [1]-272 p. PAGE SIZE: 208 x 124 mm. RARE.

CONTENTS: [1 pg], Blank.; [1 pg], Series title page.; [1 pg], Title page; [1 pg], Blank.; [2 pgs], “Vorrede.”; [i]-lviii, “Allgemeines.”; [1]-269, Text.; 270-272, “Nachträge und Berichtigungen.”

REFERENCES: Dana's 7th (Bibliography): 79. • *USGS Library Catalog*.

**4021. 5th supplement, 1851:** Fünftes Supplement | zu dem | Handwörterbuch | Des Chemischen Theils Der | Mineralogie | Von | C.F. Rammelsberg | [11 lines of titles and memberships...] | [tapered rule] | Berlin, 1853. | Verlag von C.G. Lüderitz.

[SERIES TITLE PAGE READS:]

Repertorium | Des Chemischen Theils Der | Mineralogie | von | C.F. Rammelsberg, | [...11 lines of titles and memberships...] | [rule] | Fünftes Heft. | 1849-1853. | [tapered rule] | Berlin, 1853. | Verlag Von C.G. Lüderitz.

8°: [i]-x, [1]-270 p. PAGE SIZE: 208 x 124 mm.

CONTENTS: [i-ii], Blank, verso series title page.; [iii-iv], Title page, verso blank.; [v]-x, “Allgemeines.”; [1]-270, Text.

RARE. Covers the discovers made in chemical mineralogy between 1849 to 1853. This was the last supplement to the author's *Handwörterbuch des chemischen Theils der Mineralogie*.

REFERENCES: Dana's 7th (Bibliography): 79. • *Jahresberichte (Berzelius)*: 22, 118. • *USGS Library Catalog*.

#### 4022. — German, 1852.

Lehrbuch | Der | Krystallkunde | Oder | Anfangsgründe Der | Krystallographie, Krystallophysik | Und | Krystallochemie. | [short rule] | Ein Leitfaden | Beim Studium Der Chemie Und Mineralogie | Von | C.F. Rammelsberg, | [...2 lines of titles and memberships...] | [short rule] | Mit 250 in den Text

eingedruckten Holzschnitten und 3 lithographirten Tafeln. | [short rule] | Berlin 1852. | [short rule] | Verlag Von P. Jeanrenaud. | (A. Förstnersche Buchhandlung.)

8°: [i]-vi, [2], [1]-236 p., 250 woodcuts, 3 plates (crystallographic projections).

CONTENTS: [i-ii], Title page, verso blank.; [iii]-iv, “Vorwort.”—dated 1 March 1852.; [v]-vi, “Inhalt.”; [1 pg], “Druckfehler.”; [1 pg], Blank.; [1]-197, Text.; 198-236, “Anhang.”; [At end], 3 plates.

VERY SCARCE. “This work is a text book of elementary crystallography, in which the subject is presented with clearness, and well illustrated with figures. The chapter on Isomorphism and other points in chemical crystallography, give special value to the work” (AJS Review).

After a short introduction, the work is divided into three major sections: I. Crystallography (p. 6-140), II. Crystal Physics (p. 141-162), and III. Crystal Chemistry (p. 163-197). A supplement concludes the work.

REFERENCES: *American Journal of Science*: 2nd Series, 15 (1853), 431. • *Katalog Bergakademie Freiberg*, 1879: p. 532-3 [VI. 837.]. • NUC. • *USGS Library Catalog*.

#### 4023. — German, 1855.

Handbuch | Der | Krystallographischen | Chemie | Von | C.F. Rammelsberg, | [...2 lines of titles and memberships...] | [short rule] | Mit 401 In Den Text Eingedruckten Holzschnitten. | [short rule] | Berlin, 1855. | Verlag Von P. Jeanrenaud. | (A. Foerstner'sche Buchhandlung.)

8°:  $\pi^8$  1-25<sup>8</sup> 26<sup>5</sup>; 212 $\ell$ .; [i]-xvi, [1]-410 p., 401 reverse woodcut illustrations of crystals. PAGE SIZE: 221 x 137 mm.

CONTENTS: [i-ii], Half title page, verso blank.; [iii-iv], Title page, verso blank.; [v], Dedication to E. Mitscherlich.; [vi], Blank.; [vii]-x, “Vorrede.”; [xi]-xvi, “Inhalt.”; [1]-5, “Einleitung.”; [6]-13, “Ueber die Berechnung der Krystalle.”; [14]-26, “Einfache Stoffe.”; 26-271, “Unorganische Verbindungen.”; 271-410, “Organische Verbindungen.”

VERY SCARCE. Rammelsberg designed his *Handbuch der Krystallographischen Chemie* to contain information that was lacking from most general treatises on chemistry, namely the crystallographic information about chemical compounds. With immense effort he collected together the systems, simple forms, twinning information, and angles of all the laboratory crystals which had been described, adding full references so that the reader could always go to the original source. No one during the nineteenth century contributed more to the crystallographic knowledge of chemical compounds than did Rammelsberg with his *Handbuch*.

The illustration technique used in this work is a reverse cut. So instead of seeing a crystal drawing in outline as is usually the case, a black rectangle is printed with the crystal shape shown in white. Very few mineralogical works used this technique, and this work and its supplement are perhaps the finest examples.

REFERENCES: Dana's 7th (Bibliography): 79. • *Freilich Sale Catalog*: no. 450. • NUC. • *USGS Library Catalog*.

## RANDALL

**4024. Supplement, 1857:** Die neuesten Forschungen in der kristallographischen Chemie. Zugleich als Supplement zu dem Handbuch der kristallographischen Chemie von C.F. Rammelsberg ... Mit 207 in den Text eingedruckten Holzschnitten. Leipzig: A. Foerstnersche Buchhandlung (Arthur Felix), 1857.

8°:  $\pi^4$  1-148 152; 118 $\ell$ .; [i]-viii, [1]-227, [1] errata p., 207 reverse woodcut illustrations of crystals. PAGE SIZE: 221 x 137 mm.

CONTENTS: [i-ii], Title page, verso blank.; [iii-iv], "Vorwort."; [v]-viii, "Inhalt."; [1]-3, "Zur Berechnung des eingliedrigen Systems."; 3-7, "Einfache Stoffe."; 8-135, "Unorganische Verbindungen."; 135-227, "Organische Verbindungen."; [1 pg], "Verbesserungen zum Handbuch."

VERY SCARCE. First Supplement to the author's *Handbuch der Krystallographischen Chemie* (Berlin, 1855), and containing the latest researches on laboratory manufactured crystals. This supplement relies a great deal on the researches of J. Schabus and C. Galissard de Marignac.

REFERENCES: NUC.

**4025. — German, 1860** [First edition].

Handbuch | Der | Mineralchemie | Von | C.F. Rammelsberg, | [...4 lines of titles and memberships...] | [ornate rule] | Leipzig, | Verlag Von Wilhelm Engelmann. | 1860.

8°: [i]-lxx, [1]-1038 p.

CONTENTS: [i-ii], Half title page, "Handbuch | Der | Mineralchemie," verso blank.; [iii-iv], Title page, verso "Das Recht ..."; [v], Dedication to Heinrich Rose and Gustav Rose.; [vi], Blank.; [vii]-viii, "Vorrede."—dated March 1860.; [ix]-xvi, "Inhalt."; [xvii]-lxvii, "Einleitung."; [lxviii]-lxx, "Literatur."; [1], Sectional title page, "Mineralien."; [2], Blank.; [3]-1026, Text.; [1027]-1038, "Register der einzelnen Artikel."

VERY SCARCE. In the nineteenth century, Rammelsberg did as much as any scientist to explore the mineral composition of minerals. In this work, totally rewritten and different in its arrangement from the famous *Handwörterbuch des chemischen Theils der Mineralogie*, he gives a complete history of the chemical properties of each mineral species. The introductory matter discusses the analysis of minerals, calculation of results, the function of water, heteromorphism, isomorphism, homoeomorphism, etc., together with a long list of literature. The text proper is then presented, arranged according to the chemical composition of the mineral species. At its publication, this book was the grandest work of its type ever to appear, and although used by many mineralogists of the time, it was still faulted for containing errors.

REFERENCES: *American Journal of Science*: 2nd series, 31 (1861), p. 354-6. • Bolton, *Bibliography of Chemistry*, 1893: p. 760. • NUC. • *USGS Library Catalog*.

**4026. 2nd edition, 1875:** Handbuch | Der | Mineralchemie | Von | C.F. Rammelsberg | [...4 lines of titles and memberships...] | [short rule] | Zweite Auflage. | I. [-II]. | Allgemeiner [-Specieller] Theil. | [tapered rule] | Leipzig | Verlag Von Wilhelm Engelmann. | 1875.

[Part 1] 8°: [i]-vii, [1] blank, [1]-136 p.; [Part 2] 8°: [i]-xiv, [1], [1] blank, 1-710, [1], [1] blank, 713-744 p., biblio., index.

CONTENTS: [Part 1] [i-ii], Title page, verso "Das Recht der Uebersetzung bleibt vorbehalten."; [iii-iv], "Vorrede zur ersten Auflage."; [v]-vi, "Vorrede zur zweiten Auflage."; [viii], Blank.; [1]-100, Text.; [101]-136, "Tabellarische Uebersicht der chemischen Natur der

wichtigen Mineralien."

[Part 2] [i-ii], Half title page, verso blank.; [iii-iv], Title page, verso "Das Recht der Uebersetzung bleibt vorbehalten."; [v]-viii, "Literatur."; [ix]-xiv, "Inhalt."; [xv], "Atomgewichte der Elemente."; [xvi], Blank.; [1]-710, Text.; [711], "Anhang Zersetzungsproducte früher organischer Verbindungen."; [712], Blank.; [713]-734, Text of Appendix.; [735]-742, "Register."; [743]-744, "Verbesserungen."

VERY SCARCE. The general plan of the volume is that adopted by the author in the first edition of 1860, with the most important changes occurring from new discoveries in chemistry. The first part contains a general statement on the subject of mineral chemistry, including detailed discussions of isomorphism and heteromorphism as they apply to minerals. The second part takes up the mineral species in order, giving under each a synopsis of the analyses published, especially the most recent. For each analysis the chemical ratios of the elements is calculated in full, and from them the formulas of the minerals are deduced.

REFERENCES: *American Journal of Science*: 3rd Series, 11 (1876), 413. • Dana's 7th (Bibliography): 79. • NUC. • *USGS Library Catalog*. • Whewell, *History of the Inductive Sciences*, 1858: 2, 628 ["Rammelsberg has collected an account of the systems, simple forms and angles of all the laborator."].

**4027. — German, 1886.**

Die chemische natur der mineralien. Berlin, C. Habel, 1886.

8°: 89, [1] p. VERY SCARCE.

REFERENCES: NUC. • *USGS Library Catalog*.

**RANDALL, Jesse Summers.** (BORN: Kentucky, U.S.A., 23 April 1848; DIED: Georgetown, Colorado, U.S.A., 24 January 1939) *American publisher & printer*.

Randall was apprenticed to an Iowa newspaper to learn the printing business. In 1869, he moved to Georgetown and immediately began for several years working for the local newspaper. After he accumulated enough resources Randell founded his own weekly, the *Georgetown Courier*, which quickly became very influential. He also became interested in the mineral resources of the state, and soon was well-known in Colorado as an amateur mineralogist. A collection of specimens which he built was purchased in 1892 by the Colorado School of Mines (Golden, Colorado) and was exhibited as part of the states display at the World's Columbia Exposition held in Chicago of that same year.

REFERENCES: Hafen, L.R., *Colorado and its People*. New York, 1948: 2, 258-61. • Jacobson, M.I., Shannon, J.M. and Mast, V., "The Geology Museum: Colorado School of Mines," *Mineralogical Record*, 16 (1985), 239-45.

**4028. — English, 1887.**

Minerals | of | Colorado. | [ornate rule] | J.S. Randall. | [ornate rule] | Georgetown, Colo. | Georgetown Courier Print. | 1887.

8°: [1]-49, [5] p. In printed wraps. PAGE SIZE: 218 x 144 mm.

CONTENTS: [1-2], Title page, verso blank.; [3], "Introductory."—signed J.S. Randall, January 1887.; [4], Blank.; [5]-49, Text.; [1 pg], Blank.; [3 pgs], "Index."; [1 pg], Blank.

RARE. The first published list of minerals found in the state of Colorado. The author based his descriptions on specimens contained in his own collection and their arrangement on JAMES D. DANA'S *System of*

*Mineralogy.* For each species described, all known localities within Colorado are given.

**4029. 3rd edition, 1893:** Third Edition. | [rule] | Minerals | of [ornament] | Colorado. | [crystal drawing with white lines on black background] | Compiled By J.S. Randall. | [crystal drawing with white lines on black background] | Printed By The Courier, Georgetown, Colorado. | 1893.

8°: [1]-48 p. In printed wraps with title repeated on the front cover wrap. PAGE SIZE: 242 x 164 mm.

CONTENTS: [1-2], Title page, verso blank.; [3], "The following are the periodicals referred to in the following pages: | ..."; [4], Blank.; [5]-48, "The Minerals of Colorado."

VERY RARE. Because of a larger page size the amount of text has increased, although the number of pages has decreased from the 1887 first edition.

**RANGO, Konrad Tiburtius.** (BORN: Colberg, Germany, 9 August 1639; DIED: Greifswald, Germany, 3 December 1702) *German theologian & naturalist.*

Rango was rector of the Gymnasium in Berlin in 1667. He became pastor of St. Nicolai in Stettin in 1682 and finally, in 1689, professor of theology at the University of Greifswald and General-Superintendent of Vorpommern and Rügen in northern Germany.

REFERENCES: ADB. • DBA: I 998, 258-271; II 1042, 23. • Eitner, *Quellenlexikon*, 1959. • Ferchl: 432. • Gerber, *Historisch-biographisches Lexikon*, 1812-4. • Jöcher, *Gelehrten-Lexikon*, 1750-51. • Poggendorff: 2, col. 568. • WBI.

**4030. — Latin, 1667** [Dissertation].

Dissertatio de Adamante. Neukölln, 1667.

4°: 3*l*.

VERY RARE. A very short dissertation concerning the diamond.

REFERENCES: BL. • CBN. • Gatterer, *Mineralogischen Literatur*, 1798-9: 2, 14. • GV (1700-1910). • LKG: XVI 213. • NUC: [no copy listed].

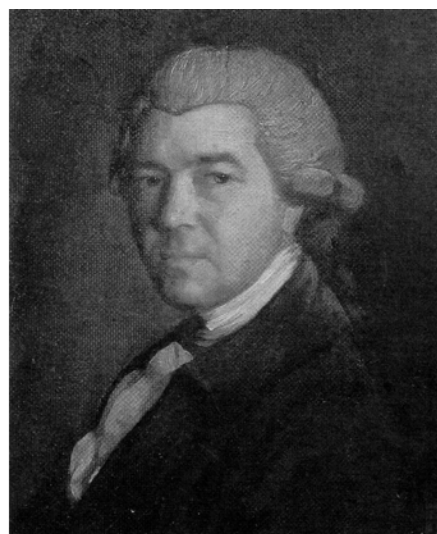
**4031. — German, 1697** [Collection catalog].

Conrad. Tiburtius Rango der Ranganischen Naturalienkammer Schönbergisches Cabinet, darin 336 Stück, meist Meißnische auch einige andere Mineralien, Metallen, Flueße, Erden, Steine etc. zu sehen. Von Conrad Tiburtius Rango. Greypshwald, 1697.

2°: 13*l*.; [26] p.

EXTREMELY RARE. In this collection catalog, Rango describes 336 specimens of minerals and stones contained in his own Naturalienkammer Cabinet. These pieces originated mostly from the Meissen area of Saxony. Freiesleben (1828), in his note, mentions that he was unable to locate a copy. There should be a copy at the British Library, which obtained Joseph Bank's library, but no record could be located in the on-line catalog as of 12 July 2003.

REFERENCES: BL: [no copy listed]. • CBN. • Dryander, *Catalogus Banks*, 1796-1800: 4, p. 24. • Freiesleben, *Sächsische Mineralien-Verzeichnisse*, 1828: p. 133n. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 259. • GV (1700-1910). • LKG: XV 1. • Murray, *Museums*, 1904: 3, 120. • NUC: [no copy listed]. • Wilson, *History of Mineral Collecting*, 1994: 189 & 221.



RASHLEIGH

**RASHLEIGH, Philip.** (BORN: Aldermanbury, London, England, 28 December 1729; DIED: Menabilly, Cornwall, England, 26 June 1811) *English antiquarian & mineral collector.*

Born the eldest son of Jonathan Rashleigh, a member of parliament and Cornish landowner, Philip attended New College at Oxford, but left without earning a degree. Following his father's death, he was elected a member of parliament in 1764 for the family borough of Fowey (or Fawey), and held his seat continuously until the dissolution of the body in 1802. During his later years he was known as "the Father of the House of Commons." Rashleigh was elected a Fellow of the Geological Society of London.

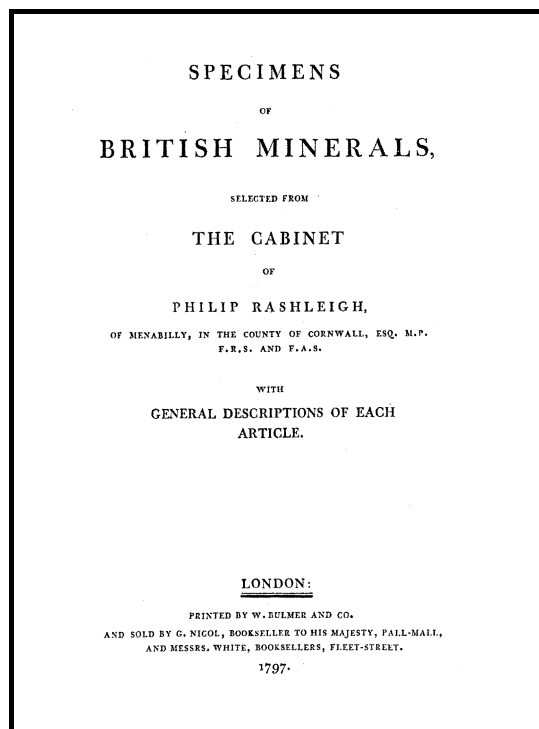
REFERENCES: BBA: I 915, 132-134. • Cleavelly, *World Palaeontological Collections*, 1983: 240. • DNB: 16, 743-4 [by W.P. Courtney]. • Embry, P.G. and R.F. Symes, *Minerals of Cornwall and Devon*. London, British Museum (NH) and Mineralogical Record Inc., Tucson, Az., 1987. [1]-154 p. • Jones, R.W., "Philip Rashleigh and his *Specimens of British Minerals* (1797 and 1802)," *Mineralogical Record*, 26 (1995), no. 4, 77-84, portrait. • *Journal of the Royal Institute of Cornwall*: 15 (1903), 342-7. • Russell, A., "Philip Rashleigh of Menabilly, Cornwall, and his mineral collection," *Journal of the Royal Institute of Cornwall. New Series*, 1 (1952), no. 2, 96-118, portrait. • Sarjeant, *Geologists*, 1980: 3, 1947. • WBI.

**4032. — English, 1797-1802.**

Specimens | Of | British Minerals | Selected From | The Cabinet | Of | Phillip Rashleigh, | Of Menabilly, In The County Of Cornwall, Esq. M.P. | F.R.S. And F.A.S. | With | General Description Of Each | Article. | London: | [double rule] | Printed By W. Bulmer And Co. | And Sold By G. Nicol, Bookseller To His Majesty, Pall-Mall, | And Messrs. White, Booksellers, Fleet-Street. | 1797.

[TITLE PAGE OF THE SECOND PART READS:]

Specimens | ... | Article. | The Second Part. | ... | Printed By W. Bulmer And Co. | Cleveland-Row, St. Jame's; | And Sold By G. And W. Nicol, Booksellers To His Majesty, | Pall-Mall; And J.



SPECIMENS OF BRITISH MINERALS, 1797

White, Fleet-Street. | May, 1802.

[Part 1: 1797] 4°: [2], [1]-56, [2] p., 33 hand-colored engraved plates. [Part 2: 1802] 4°: [4], 1-23, [2] p., 21 hand-colored engraved plates. PAGE SIZE: 274 x 214 mm.

CONTENTS: [Part 1] [2 pgs], Title page, verso blank.; [2 pgs], "Introduction."; [1]-56, Text, being a description of the plates.; [1 pg], "Specific Gravities of Several Minerals."; [1 pg], blank.

[Part 2] [2 pgs], Title page, verso blank.; [2 pgs], "Observations."; 1-23, Text, being a description of the plates.; [1 pg], Blank.; [1 pg], "Section of the Stream Work at Poth."; [1 pg], Blank.

PLATES: All the plates are finely hand-colored with each figure numbered. No descriptions of the objects appear on the plates and the modern species names listed below are derived from the accompanying letterpress. The plates of part one comprise:

Pl. 1 (p. 1), Cassiterite-St. Austell, Goos Moor, Gaverigan, and St. Column, 17 figs. Pl. 2 (p. 5), Cassiterite-Proth, St. Blazie, Sundrycock, St. Blazie, Carnan, Rerran Arworthall, and the Pell Mine, St. Agnes, 5 figs. Pl. 3 (p. 7), Cassiterite-Dartmoor, Debenshire, Huel Jewel, Gwennap, Dartmoor, and Carvath Mine, St. Austell, 4 figs. Pl. 4 (p. 8), Cassiterite-Glassteining Mine, St. Austell, Trevascus Mine, Gwinear, and Huel Kine, St. Agnes, 4 figs. Pl. 5 (p. 10), Cassiterite-Pell Mine, St. Agnes, Trevaunance, Huel Prosper, St. Agnes, and Glassteining Mine, St. Mewan, 6 figs. Pl. 6 (p. 12), ??-Cook's Kitchen, Illogan, and Chalcopryrite-Pell Adit, St. Agnes, 6 figs. Pl. 7 (p. 14), Chalcopryrite-Cuanhaven, St. Agnes, Cook's Kitchen and Llandidno, Denbighshire, 6 figs. Pl. 8 (p. 16), ??-Tincroft, Illogan and Reskear Mine, Huel Rosewarne, 4 figs. and Cuprite-Tincroft, Illogan, 1 fig. Pl. 9 (p. 18), ??-Cook's Kitchen, Chalcophyllite-Tincroft, Olivenite-Tincroft, and ??-Tincroft, 4 figs. Pl.

10 (p. 19), Chalcopryrite-Carharrack, Gwennap, Olivenite-Carharrack, and Chalcocite-Carharrack, 7 figs. Pl. 11 (p. 21), Olivenite-Carharrack and Cook's Kitchen, 6 figs. Pl. 12 (p. 23), ??-Carharrack and Malachite-Carharrack, 5 figs. Pl. 13 (p. 25), Malachite-Huel Carpenter, Gwinear, 1 fig. Pl. 14 (p. 26), ??-Carharrack, Torbernite-Carharrack and Huel Carpenter and Olivenite-Carharrack, 4 figs. Pl. 15 (p. 28), Chalcocite-Cook's Kitchen and Padstow, 6 figs. Pl. 16 (p. 30), Chalcotrichite-Huel Prosper, and Cuprite-Gwennap and Copper-United Mines, Gwennap, 3 figs. Pl. 17 (p. 31), Native copper-Copper-United Mines, Gwennap, Botallack Adit, St. Just, Lizard, Copper-Foldory, Gwennap, and Copper-Mullion, Lizard, 8 figs. Pl. 18 (p. 33), Chalcocite-Padstow, Siderite cast-Huel Cock, St. Just, marcasite-Blandford, Dorsetshire, and ??-Scotland, 5 figs. Pl. 19 (p. 34), Bournonite-Huel Boys, Endellion, 2 figs. Pl. 20 (p. 35), Calcite-Ball's Eye Mine, Bonsal and Hemimorphite(?)-Halken Moutain, Worksworth, Derbyshire and Bonsal Dale, Derbyshire, 6 figs. Pl. 21 (p. 36), Pyrite-Poldice, Gwennap and ??-Huel Fancy, 5 figs. Pl. 22 (p. 37), Pyrite, 1 fig. Pl. 23 (p. 38), Fluorite-Pell Mine, St. Agnes, 5 figs. Pl. 24 (p. 40), Fluorite with quartz-Beer Alston Mine, Poldice, Gwennap and Pell Mine, St. Agnes, 3 figs. Pl. 25 (p. 41), Calcite-Alston Moor, Durham and Cumberland, 5 figs. Pl. 26 (p. 42), Calcite-Cumberland Mine, Matlock, 1 fig. Pl. 27 (p. 43), Quartz-Carrow Gill, Cumberland, 1 fig. Pl. 28 (p. 44), Selenite-Cumberland Mine, Matlock, 1 fig. Pl. 29 (p. 45), Selenite-Cumberland Mine, Matlock, 3 figs. Pl. 30 (p. 46), Cerussite-Tipperary, Ireland, Burne Mine, Durham, Mendip Hills, Bristol and Huel Rose, Low Pool, 4 figs. Pl. 31 (p. 47), Galena and sphalerite-Derbyshire, 4 figs. Pl. 32 (p. 48), Cassiterite-St. Austell, Sithney Parish, Huel Prosper, St. Agnes, Wherry Mine, Penzance, Gaverigan, St. Dennis, Huel King and Trevaunance, 20 figs. Pl. 33 (p. 52), Chalcopryrite, chalcocite, bournonite, olivenite and ??, 31 figs.

The plates of part two comprise: Pl. 1 (p. 1), Chalcocite-Tincroft, 1 fig. Pl. 2 (p. 2), Libethenite-Huel Providence, 1 fig. Pl. 3 (p. 3), Clinoclase-Huel Providence, 1 fig. Pl. 4 (p. 4), Liroconite-Huel Providence, 1 fig. Pl. 5 (p. 5), Clinoclase-Huel Mutterel, 1 fig. Pl. 6 (p. 6), Olivenite, 1 fig. Pl. 7 (p. 7), ??-Huel Unity, 1 fig. Pl. 8 (p. 8), Cuprite-Huel Mutterel, 1 fig. Pl. 9 (p. 9), ??-Huel Mutterel, Huel Gorland and Huel Providence, 6 figs. Pl. 10 (p. 10), Chalcophyllite-Huel Gorland, Liroconite-Huel Unity and Huel Gorland, 5 figs. Pl. 11 (p. 11), ??-Huel Mutterel, Liroconite-Huel Gorland, ??-Huel Mutterel and Huel Gorland, Cuprite-Huel Providence, 5 figs. Pl. 12 (p. 13), Connellite-Huel Providence, ??-Huel Gorland, Huel Mutterel and Huel Providence, 6 figs. Pl. 13 (p. 15), Cassiterite/calcedony-Pednandra, 1 fig. Pl. 14 (p. 16), Cassiterite-Sithney and St. Enedor, 5 figs. Pl. 15 (p. 18), Galena-Derbyshire, 1 fig. Pl. 16 (p. 19), Pyromorphite-Huel Edgcumbe, Chalcopryrite-Ecton Mine, Derbyshire, ??-Derbyshire, Galena/Pyrite-Derbyshire and Cerargarite-Huel Mexico, Cornwall, 5 figs. Pl. 17 (p. 20), Hematite-St. Stephan's, Brannel, 1 fig. Pl. 18 (p. 21), Serpentine-Lizard and Talc-Stowes-End Mine, Linkinghorne, 4 figs. Pl. 19 (p. 22), Mamillary Echinus-North Fleet, 1 fig. Pl. 20 (p. 23), Bivalve Fossil-Colebrook Dale, 1 fig. Pl. 21 (p. 25), Section of the Stream Work at Poth, 1 fig.

RARE, especially in complete sets. This sumptuous publication describes and illustrates selected specimens from the very large collection of Cornish minerals and fossils formed by the author. Rashleigh began to collect minerals around 1765, and since the upper oxide zones of many mines in the area were at that time just beginning to be explored, he was able to assemble over the remainder of his life probably the finest private collection of Cornish minerals ever. This

work, published in two parts, describes and illustrates some of the finest specimens from his collection.

The first part was written in 1797 partially as a response to the numerous requests Rashleigh had from his many visitors and foreign correspondents for an illustrated catalog of his collection. The beautiful copper engravings show recognizable classic specimens of cassiterite and various other rare and common copper species, such as chalcophyllite, liroconite, cuprite and pharmacosiderite. These excellent illustrations were the result of the Cornish engraver Henry Bone [1755–1834] efforts. The first part was so well received that in 1802 a second part was prepared and published. For this volume, the services of the engraver Thomas Medland [?–1833] and the colorist Thomas Richard Underwood [1765–1836] were retained, and the same high quality was maintained. However, the text of both volumes shows Rashleigh ignorance of mineralogy as a science. The descriptions do not reference the common mineralogical names of the species illustrated. Nor does the author reference any other mineralogical works. Instead, Rashleigh describes the minerals with his own peculiar nomenclature. But this is a small thing for a work that was written with the pride of a proud collector, for an audience of other collectors.

It would appear that the second part, published five years after the original is an uncommon item. Often only the first part of this work is offered for sale; seldom are both parts present. This is probably an effect of the second part being published as an afterthought by Rashleigh.

REFERENCES: BL. • BMC: 4, 1646. • Dana's 7th (Bibliography): 79. • *Edinburgh Review*: 4 (1803), 117–20 [part 1 only]. • *Freilich Sale Catalog*: no. 451. • Jones, R.W., "Philip Rashleigh and his *Specimens of British Minerals* (1797 and 1802)," *Mineralogical Record*, 26 (1995), no. 4, 77–84, portrait. • LKG: XIV 443. • NUC: 481, 564 [NR 0062780 & NR 0062781]. • Russell, A., "Philip Rashleigh of Menabilly, Cornwall, and his mineral collection," *Journal of the Royal Institute of Cornwall. New Series*, 1 (1952), no. 2, 96–118, portrait. • Smith, *Early Mineralogy in Great Britain*, 1978: 53–4. • Ward & Carozzi, *Geology Emerging*, 1984: no. 1833. • Wilson, *History of Mineral Collecting*, 1994: 71–4, 78, 79, 189 & 221.

**RAU, Ambrosius.** (BORN: Würzburg, Germany, 7 March 1784; DIED: Würzburg, Germany, 27 January 1830) *German naturalist, botanist & mineralogist.*

Rau was a professor or natural history, forestry and rural economy at the University of Würzburg.

REFERENCES: DBA: I 1001, 264–265; II 1045, 144. • Meusel, *Verstorbenen Deutschen Schriftsteller*, 1802–16. • *Neuer Nekrolog der Deutschen*. • Poggendorff: 2, col. 574.

#### 4033. — German, 1807.

Gemein sässig geordnete und gemeinnützige Naturgeschichte für unkundige Leihhaber derselben und für die erwachsenere Jugend. Herausgegeben von J.F. Schlez. Zweite und letzte Hälfte, welche die Botanik und Mineralogie enthält. Mit 10 Kupfertafeln. Rothenburg: o.d.T. bei Klass, 1807.

8°:

RARE. Dr. Rau's work (mineralogy begins on

page 206) is a completely failed product, that will benefit neither the ignorant amateur of mineralogy nor curious youths for whom it was intended. (Leonard's *Taschenbuch*, 2, p. 337–8)

REFERENCES: Leonard's *Taschenbuch*: 2, p. 337–38. • LKG: XII 227.

#### 4034. — German, 1818 [First edition].

Lehrbuch der Mineralogie. Würzburg, In der Stahelischen Buchhandlung, 1818.

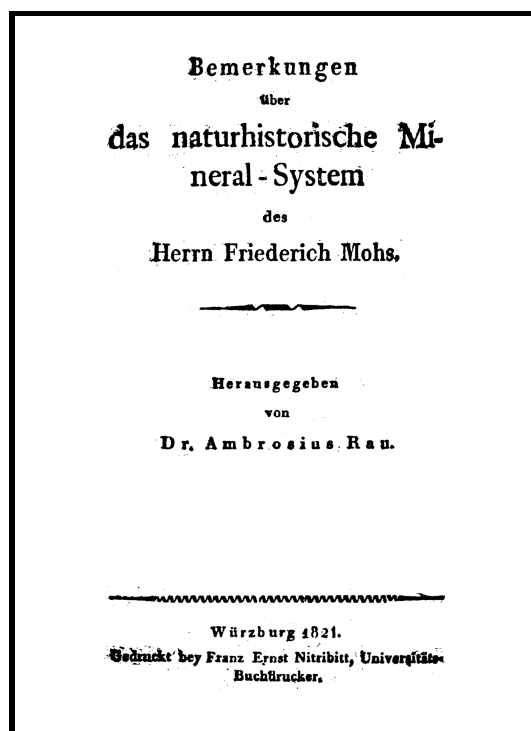
8°: vii, [1], 614, [1] p., one folding plate, biblio. (pages 22–27).

VERY SCARCE. A textbook of mineralogical science.

REFERENCES: Jonathan Hill, Bookseller: cat. 66 (1992), no. 115. • NUC: [NR 0069995].

**4035. 2nd edition, 1826:** Lehrbuch der Mineralogie. Zweite Auflage. Würzburg: In der Stahelischen Buchhandlung, 1826.

8°: VERY SCARCE.



BEMERKUNGEN, 1821

#### 4036. — German, 1821.

Bemerkungen | über | das naturhistorische Mineral-System | des | Herrn Friederich Mohs. | [ornate rule] | Herausgegeben | von | Dr. Ambrosius Rau. | [ornate rule] | Würzburg 1821. | Gedruckt bey Franz Ernst Nitribitt, Universitäts-Buchdrucker.

8°. 1-4<sup>8</sup> 5<sup>2</sup>; 34<sup>l</sup>.; [1]–68 p. PAGE SIZE: 192 x 108 mm.

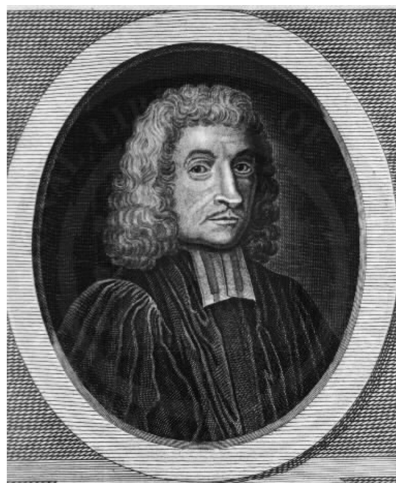


## RAY

CONTENTS: [1-2], Title page, verso blank.; [3]-7, Introduction.; 8-68, Text.

RARE. The text is divided into 3 parts: (1) Provides an overview of the rules governing Mohs natural history classification of minerals. (2) Outlines the mineral system. (3) Concerns the nomenclature of the natural history systems.

REFERENCES: Partsch, *Katalog der Bibliothek*, 1851: no. 247.



RAY

RAY (Wray), John. (BORN: Black Notley, near Brainton, Essex, England, 29 November 1628; DIED: Black Notley, near Brainton, Essex, England, 17 January 1705) *English antiquarian*.

Ray was one of the most renowned naturalists of his age. His primary interest was botany. Elected a Fellow of the Royal Society of London, 1667.

REFERENCES: Allibone, *Dictionary of English Literature*, 1859-71. • Arber, A., "A Seventeenth-century Naturalist: John Ray," *Isis*, 34 (1943), 319-24. • BBA: I 1198, 378-451; 1199, 1-8. • Derham, W., *Memorials of John Ray*. London, 1946. • DNB: 16, 782-7. • Keynes, John Ray, a *Bibliography*, 1951. • Poggendorf: 2, cols. 576-7. • Raven, C.E., *English Naturalists from Neckham to Ray*. Cambridge, 1947. • Raven, C.E., *John Ray, naturalist: his life and works*. Second edition. Cambridge & New York, Cambridge University Press, 1986. xxv, 506 p. • Raven, C.E., *John Ray, Naturalist: His life and Works*. Cambridge, 1942. • Vines, S.H., "Robert Morison, 1620-1683, and John Ray, 1627-1688," in: F.W. Oliver, ed., *Makers of British Botany*. Cambridge, 1913, p. 8-43. • Waller, *Dictionary of Universal Biography*, 1857-63. • Watt, *Bibliotheca Britannica*, 1824. • WBI.

### Comprehensive Bibliography

#### 4037. — English, 1951.

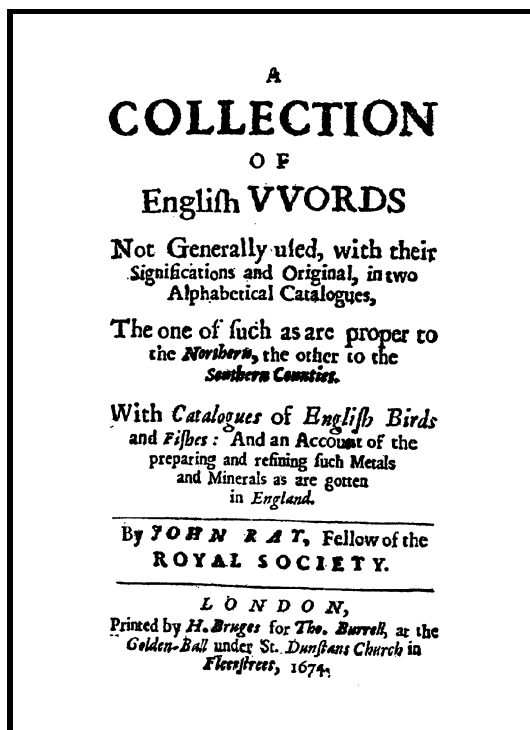
John Ray | A Bibliography By | Geoffrey Keynes | [...2 lines of titles...] | Faber and Faber | 24 Russell Square • London.

8°: [i]-xv, [1], 1-163, [1] p., ports., facsim. PAGE SIZE: 248 x 150 mm.

CONTENTS: [i-ii], Half title page, "John Ray | A Bibliography," verso blank.; [Frontispiece, portrait

of Ray]; [iii-iv], Title page, verso "First published in mcmli | ..."; v-vi, "Contents."; vii-viii, "Illustrations."; ix-xiv, "Preface."; xv, "Abbreviations."; [1 pg], Blank.; 1-150, Text of bibliography.; 151-152, "Appendix | A Note On The Portraits Of Ray."; 153-154, "Index of Copies Recorded."; 155-156, "Printers, Booksellers, and Publishers, | 1660-1942."; 157-163, "General Index."; [1 pg], Blank.

SCARCE. Limited to 650 copies and printed on blue paper. A descriptive bibliography of Ray's writings, by a master of the format.



COLLECTION OF ENGLISH VVORDS, 1674

#### 4038. — English, 1674 [First edition].

A | Collection | Of | English VVords | Not Generally used, with their | Significations and Original, in two | Alphabetical Catalogues, | The one of such as are proper to | the Norhern, the other to the | Southern Counties. | With Catalogues of English Birds | and Fishes: And an Account of the | preparing and refining such Metals | and Minerals as are gotten | in England. | [rule] | By John Ray, Fellow of the | Royal Society. | [rule] | London, | Printed by H. Bruges for Tho. Burrell, at the | Golden-Ball udner St. Dunstans Church in | Fleetstreet, 1674.

8°: A-K<sup>8</sup> L<sup>4</sup> (A1 blank); 84ℓ.; [16], 1-148, [2] p. Title page in red and black. Last six pages misnumbered 173-6, 777, 178 instead of 143-8.

CONTENTS: A1, Blank.; A2r, Title page.; A2v, Blank.; A3r-A4r, Dedication to Peter Courthope Esquire, signed

Jo. Ray.; A4v, Blank.; A5r-A8v, "To the Reader."; 1-80 (B1r-G1v), "Collection of Local Words."; 81-96 (G2r-H1v), "Catalogue of English Birds."; 97-112 (H2r-I1v), "Catalogue of Fishes."; 113-48 (I2r-L3v), "Account of Metals and Minerals."—errata at bottom of L3v.; L4, Blank.

RARE. Ray dedicates his *Collection* to his friend and college pupil Peter Courthope of Danny in Sussex. He writes that Courthope was 'the first that contributed to it and indeed the person that put me upon it.' This is one of Ray's more important publications. In his preface ("To the Reader") Ray explains that he first began to make his list of words for his own use as he came across them in conversation, but finding this to be limited a field, he called upon friends throughout the country to supply him other lists. Even so, the collection was not particularly long, therefore, he added to it lists of birds and fishes compiled by Francis Willughby and himself. Further text was added by including tracts on the smelting and refining of silver at The Silver Mills of Cardiganshire, perpetration of tin in Cornwall, the manner of working iron at the forge, notes on husbandry, creation of wire in Monmouthshire, preparation of minium or 'Red Lead', the making of salt in Cheshire and Lancashire.

REFERENCES: Keynes, *John Ray, a Bibliography*, 1951: no. 23.

**4039. 2nd edition, 1691:** [Contained within a double rule box:] A | Collection | Of | English Words | Not Generally used, with their | Significations and Original, in two | Alphabetical Catalogues, | The One | Of such as are proper to the Northern, | the other to the Southern Counties. | With | An Account of the preparing and | refining such Metals and Minerals | as are gotten in England. | [rule] | The Second Edition, augmented with many | hundreds of Words, Observations, Letters, &c. | By John Ray: Fellow | of the Royal Society. | [rule] | London: | Printed for Christopher Wilkinson, at the | Black Boy over against S. Dunstan's | Church in Fleetstreet. 1691.

12°: A-K<sup>12</sup> (A1 blank); 120ℓ.; [24], 1-211, [5] p.

CONTENTS: A1, Blank.; A2r, Title page.; A2v, Blank.; A3r-A4r, Dedication.; A4v, Blank.; A5r-A12r, "The Preface."; A12v, Blank.; 1-121 (=B1r-G1r), "A Collection of Local Words."; 122-173 (=G1v-I3r), "A Catalogue of Local Words parallell'd with British or Welsh by ... Mr Edward Lloyd, A Catalogue of North Country Words received from Mr Tomlinson of Edmund Hall ..., Glossarium Northanhymbricum, An Account of some Errors and Defects in our English Alphabet, Orthography, and Manner of Spelling, Postscript."; 174-211 (=I3v-K10r), "Account of Metals and Minerals."; K10v-K12v, "A Catalogue of some books Printed for Christoph. Wilkinson."

SCARCE. In this edition, the preface containing an account of many additional terms, and the section contained on pages 122-173 are new. The main dictionary also has many additions. The Catalogues of Birds and Fishes are omitted. Keynes calls this edition "virtually a new book."

REFERENCES: Keynes, *John Ray, a Bibliography*, 1951: no. 24.

**4040. 3rd edition, 1874:** A Collection of English Words ... By John Ray, Fellow of the Royal Society. To which is appended Thoresby's Letter to Ray, 1703. Rearranged and edited (with introduction, notes, and index) by the Rev. Walter W. Skeat, M.A. London: Published for the English Dialect Society, by Trübner & Co., 57 & 59, Ludgate Hill. MDCCCLXXIV. [Series B. Reprinted Glossaries. XV-XVII.]

8°: xxix, [1], 122 p.

VERY SCARCE. Edited by Walter W. Skeat. The editor gives a complete account of the first two editions, noting that the second is the best, while the first is a help in eliminating misprints. Skeat has changed the arrangement of the original text in order to make it more serviceable as a reference. The letter from Thoresby on Yorkshire words is taken from Derham's edition of the *Philosophical Letters* (London, 1718).

REFERENCES: Keynes, *John Ray, a Bibliography*, 1951: no. 25.

#### 4041. — English, 1692.

Miscellaneous discourses concerning the dissolution and changes of the world. : Wherein the primitive chaos and creation, the general deluge, fountains, formed stones, sea-shells found in the earth, subterraneous trees, mountains, earthquakes, vulcan London, : Printed for Samuel Smith ..., 1692.

[28], 259, [1] p. ; 19 cm. (8vo) Signatures: A200a196B-R200S196 Signatures: A200a196B-R200S196 Advertisements: p. [1] at end. Advertisements: p. [1] at end. Errata: p. [24] at front. Errata: p. [24] at front. Two printings o VERY SCARCE.

**RAZOUROWSKY (Razumovskij), Grégoire de, Comté.** (BORN: Russia, 1759; DIED: Rudoletz, Moravia, Czech, 3 June 1837) *Russian aristocrat.*

Razourowsky was a wealthy individual who lived for many years in Switzerland and Italy. He authored works and many articles on mineralogy and geology.

REFERENCES: Poggendorff: 2, cols. 578-9.

## ESSAI D'UN SYSTÈME DES TRANSITIONS DE LA NATURE DANS LE REGNE MINÉRAL.

PAR M. LE CTE. G. DE RAZOUROWSKY,

*Membre de la Société des Sciences Physiques  
de Lausanne, & correspondant de l'Académie  
Royale des Sciences de Turin*



A LAUSANNE,  
Chez FRANÇOIS LA-COMBE, Lib.

M. DCC. LXXXV.

ESSAI D'UN SYSTÈME, 1785

## RAZOUROWSKY (RAZUMOVSKIJ)

### 4042. — French, 1785.

Essai | D'Un Système | Des Transitions | De La  
| Nature | Dans Le | Regne Mineral. | Par M. le  
Cte. G. de Razourowsky, | [...3 lines of titles and  
memberships...] | [ornament] | A Lausanne, | Chez  
François La-Combe, Lib. | [double rule] | M. DCC.  
LXXXV.

12°: A-G<sup>12</sup> H<sup>8</sup>; 92ℓ.; [1]-184 p. PAGE SIZE: 166 x  
100 mm. VERY SCARCE.

CONTENTS: [1-2], Half title page, "Essai | D'Un  
Système | Des Transitions | De La | Nature | Dans  
Le | Regne Minéral," verso blank.; [3-4], Title page, verso  
blank.; [5]-184, Text.

REFERENCES: CBN: 147, col. 370. • Gatterer,  
*Mineralogischen Literatur*, 1798-9: 1, 248 ["Sehr gut"]. •  
*Göttingische gelehrte Anzeigen*: 3 (1786), 1878. • LKG: XIII  
154. • NUC: 483, 199-200 [0085179].

4043. German transl., 1786: Herrn Grafens von Razourowsky  
Versuch eines Systems der Uebergänge der Natur in dem  
Mineralreich aus dem Französischen ... Greiz, Henning,  
1786.

8°: 126 p.

VERY SCARCE. Translation of *Essai d'un Système des  
Transitions de la Nature dans le Règne Minéral* (Paris, 1785).

REFERENCES: *Allgemeine Deutsche Bibliothek*: 75, no. 1,  
161. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 248. •  
LKG: XIII 155a.

4044. German transl., 1787: Versuch eines Systems von  
Übergängen der Natur im Mineralreiche. Aus dem  
Französische übersetzt von J.M.Tzschoppe. Dresden, In  
der Waltherischen Hofbuchhandlung, 1787.

8°: 116 p.

VERY SCARCE. Translation by Johann Michael  
Tzschoppe of *Essai d'un Systme des Transitions de la Nature*  
(Lausanne, 1785).

REFERENCES: *Allgemeine Deutsche Bibliothek*: 84, 496.  
• *Allgemeine Literatur-Zeitung*: 1788, no. 1, 385. • Gatterer,  
*Mineralogischen Literatur*, 1798-9: 1, 248. • LKG: XIII 156  
& 157. • NUC: 483, 199-200 [NR 0085183].

### 4045. — French, 1789.

Histoire Naturelle | Du | Jorat Et De Ses Environs;  
| Et celle des trois Lacs | De Neufchatel, Morat Et  
Bienne; | Précédées d'un | Essai sur le Climat,  
les Productions, le Commerce, | les Animaux de la  
partie du Pays de Vaud ou | de la Suisse Romande,  
qui entre dans le plan de | cet Ouvrage. | Par |  
M. le Cte. G. De Razourowsky, | [...3 lines of titles  
and memberships...] | [rule] | Tome Premier. | [rule]  
| [vignette] | À Lausanne, | Chez Jean Mourer ,  
Libraire. | [double rule] | 1789.

2 vols. [VOL 1] 8°: 4, xvi, 322 p. [VOL 2] 8°: 4,  
238 p., 6 large engraved copper plates.

VERY SCARCE. first expenditure des of  
hauptwerkes des Polish count G. de Razourowsky  
(?-1837) had established itself, der around 1780 for  
some years in Lausanne. With large eagerness he  
dedicated himself in der to Switzerland nature-historical  
investigations. From an intended description der  
environment of Lausanne arose finally for das available  
two-restrains work with der description der entire  
Waadt and des Juras. After a short introduction over  
climate and die, Razourowsky in the first part of die

## HISTOIRE NATURELLE

D U

### JORAT ET DE SES ENVIRONS;

Et celle des trois Lacs

### DE NEUFCHATEL, MORAT ET BIENNE;

Précédées d'un

*ESSAI sur le Climat, les Productions, le Commerce,  
les Animaux de la partie du Pays de Vaud ou  
de la Suisse Romande, qui entre dans le plan de  
cet Ouvrage.*

P A R

M. LE C<sup>te</sup>. G. DE RAZOUROWSKY,

Des Académies Royales des Sciences de Stockholm & de Turin;  
Affilié libre Étranger de la Société Agraire de Turin, & membre  
de la Société Physico-Médicale de Bâle, & de la Société de Physique  
de Zurich.

T O M E P R E M I E R.



À L A U S A N N E,

Chez J E A N M O U R E R, Libraire.

I 7 8 9.

## HISTOIRE NATURELLE DU JORAT, 1789

Fauna der Waadt describes more important commercial  
products der area. Der more important second part  
treats finally geology and mineralogy.

First and only edition of an illustrated account  
of the fauna and geology of the Swiss Jura, in the  
vicinity of Neuchâtel, Murten and Biel, northwest of  
Bern, by Count Grigori Kirillovic Razumovskii (1759-  
1837). The first volume describes the fauna according  
to the Linnean system. The second includes a geological  
description with notes on mining, minerals, fossils etc.  
The illustrations cover zoology (especially reptiles),  
entomology and geology (including fossils).

REFERENCES: CBN: 147, col. 370. • LKG: XIV 492. •  
Studer, *Geschichte Geographie Schweiz*, 1863.: 541 & 591.

### 4046. — French, 1784.

Oeuvers de Mineralogie et de Physique. Bâle, 1784.

2 vols. RARE.

REFERENCES: Gatterer, *Mineralogischen Literatur*,  
1798-9: 1, 288. • LKG: VI 88.

### 4047. — German, 1788.

Herrn | Gregorius Graf von Rasumowsky, | [...3  
lines of titles and memberships...] | mineralogische  
und phy= | sikalische | Reisen. | Aus dem  
Französischen übersezt | von | J.M. Tzschoppe,  
| und mit einigen Anmerkungen versehen. |  
[ornament] | [ornate rule] | Dresden, 1788. | In der  
Waltherischen Hofbuchhandlung.

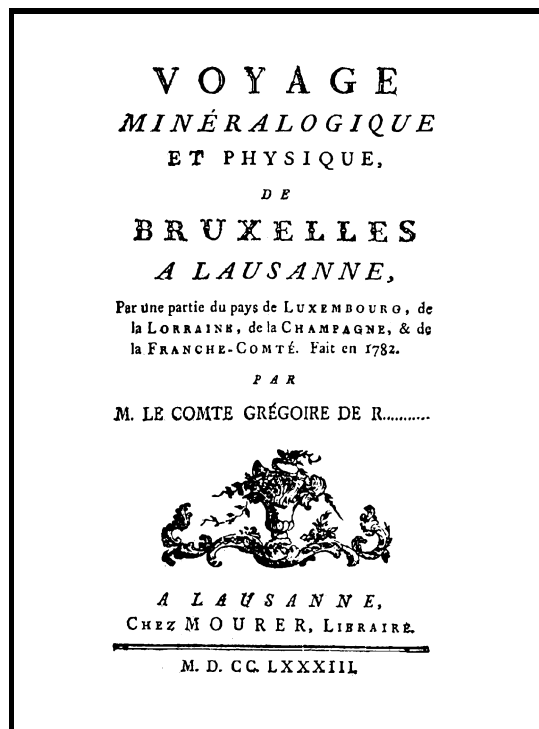
8°: )<sup>(8</sup> A-Q<sup>8</sup>; 136ℓ.; [16], [1]-255, [1] p. PAGE SIZE:

197 x 115 mm.

CONTENTS: [2 pgs], Title page, verso blank.; [1 pg], Dedication to Gustav George.; [1 pg], Blank.; [6 pgs], "Vorrede des Verfassers."; [5 pgs], "Vorrede des Uebersetzers."; [1 pg], "Inhalt."; [1]-255, Text.; [1 pg], Blank.

VERY SCARCE. Describes the mineralogical and geological features the author observed on an excursion from Brussels to Lausanne.

REFERENCES: LKG: XIV 491.



VOYAGE MINÉRALOGIQUE, 1783

**4048. — French, 1783.**

Voyage | Minéralogique | Et Physique, | De | Bruxelles | A Lausanne, | Par une partie du pays de Luxembourg, de | la Lorraine, de la Champagne, & de | la Franche-Comté. Fait en 1782. | Par | M. Le Comte Grégoire De R..... | [ornament] | A Lausanne, | Chez Mourer, Libraire. | [double rule] | M. D. CC. LXXXIII.

8°: [2], v-xiv, [4], 118 p. VERY SCARCE.

REFERENCES: CBN: 147, col. 370. • LKG: XIV 350. • NUC: 483, 199-200 [NR 0085185].

**4049. — French, 1784.**

Voyages Minéralogiques dans le Gouvernement d'Aigle et une Partie du Vallais. Suivis de la relation d'une excursion sur le Lac de Lucerne, ou Lac des Quatre Cantons. Par M. le Comte G. de Razoumowsky. Lausanne, Mourer cadet, 1784.

8°: [2], iv, 183, [2] p., one large folding colored map, one copper plate. VERY SCARCE.

REFERENCES: CBN: 147, col. 370. • LKG: XIV 490. • NUC: 483, 199-200 [NR 0085184].

**4050. — French, 1822.**

Observations | Minéralogiques | Sur | Les Environs De Vienne. | [rule] | Par | Le C<sup>te</sup> G. De Rasoumovsky, | [...4 lines of titles and memberships...] | [rule] | [...one line of quotation...] | [double rule] | Vienne, | Chez Leopold Grund | 1822.

4°: iv, 58, [2] errata p., 10 plates (5 engraved and 5 in lithography), showing 75 hand-colored illustrations.

VERY SCARCE. A topographical monograph describing the fossils and minerals found in the vicinity of Vienna. The fine set of plates shows specimens of fossils in hand colored renderings with detailed locality information.

In the "Avant-propos" Razoumowsky criticizes the observations made by the French mineralogist Louis-Constant Prévost in his *Sur la constitution géologique du bassin de Vienne ...* (Vienna, 1820). This work had been the basis for determining the chronological relationship of tertiary deposits in various parts of Europe. Razoumowsky challenges the Frenchman's theories of mountain structure and adds observations of fossil types found around Vienna but unknown to Prévost.

REFERENCES: BMC: 4, 1657. • NUC: 483, 199-200 [NR 00851181].

**RECHENBERG, Adam.** (BORN: 1642; DIED: 1721) *German theologian.*

REFERENCES: ADB. • DBA: I 1005, 42-123. • Eckstein, *Nomenclator philologorum*, 1871. • Hirsching, *Historisch-literarisches Handbuch*, 1794-1815. • Jöcher, *Gelehrten-Lexikon*, 1750-51. • Jöcher, *Gelehrten-Lexikon, Supplement*. • WBI.

**4051. — Latin, 1687** [Dissertation].

Q.D.B.V. | De | Gemmis | Errores Vulgares, | Qvos | Dissertatione | Historico-Physica, | In | Academia Lipsiensi, | XXIV. Decembr. MDCLXXXVII. | Moderante | L. Adamo Rechenberg/ P.P. | Affine suo bonorando, | Exponit refellitqve | Jo. Jacob Spenerus, Mœno-Francof. | Philos. Bacc. & Medic. Cultor. | [rule] | Lipsiæ, | Typis Christophori Fleischeri.

4°: A-D<sup>4</sup>; 16<sup>l</sup>.; no pagination. Headpiece. PAGE SIZE: 185 x 150 mm.

CONTENTS: [2 pgs], Title page, verso blank.; [2 pgs], Introduction.; [12 pgs], Text.

RARE. Dissertation — JOANNES JACOB SPENER, respondent.

REFERENCES: BL: [B 953.a.2.]. • LKG: XVI 218. • Sinkankas, *Gemology Bibliography*, 1993: no. 6284. • VD17: 14:643423D.

**RECHTER GEBRAUCH D'ALCHIMEI.**

See: Kertzenmacher, Petrus.



REGNAULT

**REGNAULT, Henri Victor.** (BORN: Aachen, France, 21 July 1810; DIED: Paris, France, 19 January 1878) *French chemist & crystallographer.*

In 1832, Regnault was accepted into the Corps de Mines raising to the rank of Engineer in Chef, 2nd class by 1847. He then accepted a position as professor of chemistry at the École Polytechnique and professor of physics at the Collège de France. He was elected a member of the French Académie des Sciences in 1840, and he won the Copley Medal of the Royal Society in 1869.

REFERENCES: ABF: I 879, 446-458; II 544, 281-285. • Glaeser, E., *Biographie nationale des contemporains*. Paris, 1878. 4,824 p. [French national biography of the 19th century.]. • *Nouvelle Biographie Générale* (Hoefer). • Poggendorff: 2, cols. 588-90 & 3, 1099-1100. • Schaedler, *Biographisch Handwörterbuch*, 1891: 101. • WBI.

#### 4052. — English, 1848.

An | Elementary Treatise | On | Crystallography. | By M.V. Regnault, | [...2 lines of titles and memberships...] | [wavy rule] | Illustrated With 108 Engravings. | [wavy rule] | London: | Hippolyte Baillière, Publisher, | And Foreign Bookseller To The Royal College Of Surgeons, | 219, Regent Street. | Paris: J.B. Baillière, Libraire, Rue De L'Ecole De Medecine. | [rule] | 1848.

8°: [4], [1]-70, [2] p. PAGE SIZE: 215 x 138 mm.

CONTENTS: [2 pgs], Title page, verso "William Henry Cox | Great Queen Street, Lincoln's Inn Fields."; [1 pg], "Publisher's Preface."—dated May 1848; [1 pg], "Contents."; [1]-70, Text.; [2 pgs], Publisher's list.

SCARCE. A basic introduction to the science of crystallography extracted and translated from the author's comprehensive textbook of chemistry, *Cours de Chimie* (2 vols., Paris, 1847-9). The text begins by defining the nomenclature of the study including edges, angles, center, and axes, next is a definition of simple and compound forms, truncations, and bevelment. The bulk of the text then describes the six divisions of the crystallographic system. Finally, the author describes imperfections in crystal formation, dimorphism, polymorphism and isomorphism.

#### REICHARDT, Georg.

##### 4053. — German, 1857.

Bibliotheca | rerum metallicarum. | Verzeichniß | der bis Mitte 1856 in Deutschland über | Bergbau, Hütten- und Salinenkunde | und verwandte Zweige | erschienenen Bücher, Karten und Ansichten. | Mit Sachregister. | Zweiter verbesserte und vermehrte Auflage. | [ornate rule] | Eisleben, 1857. | Druck und Verlag von Georg Reichardt.

8°:  $\pi^8$  b<sup>8</sup> 1-10<sup>8</sup> 11<sup>2</sup> (\$2 signed); 98<sup>l</sup>.; [i]-xxxii, [1]-164 p.

CONTENTS: [i-ii], Title page, verso blank.; [iii], "Vorwort."—dated March 1857.; [iv], "Reihenfolge des Sachregisters."; [v]-xxxii, "Sachregister."; [1]-164, Text of bibliography.

VERY RARE. A bibliography of c2000 entries concerned with mining, metallurgy, salt works, mineralogy and associated disciplines in Germany. It is arranged alphabetically, and includes a long subject index. Included with each entry is a value in Thaler. A copy of the first edition, which was according to Margerie published in 3 fascicles in 1840, 1841 and 1852, has eluded detection by the compiler.

REFERENCES: BL: [011899.g.11.; includes supplement].

• Margerie, *Bibliographies Géologiques*, 1896: no. 31.

**4054. Supplement, 1864:** Bibliotheca rerum metallicarum. Verzeichniß der bis Mitte 1856 in Deutschland über Bergbau, Hütten- und Salinenkunde ... erschienenen Bücher, Karten und Ansichten ... Zweiter ... Auflage. (Nachtrag dem Zeitraum von Juli 1856 bis Jan. 1864 umfassend.) Eisleben, 1864.

8°: [i]-xxiv, [1]-110 p.

VERY RARE. Bibliography of c1250 entries that supplements and continues the *Bibliotheca Rerum Metallicarum* (Eisleben, 1857) by including titles from July 1856 to January 1864.

REFERENCES: BL: [011899.g.11.; includes supplement].

• BMC: 1, 160. • Margerie, *Bibliographies Géologiques*, 1896: no. 31.

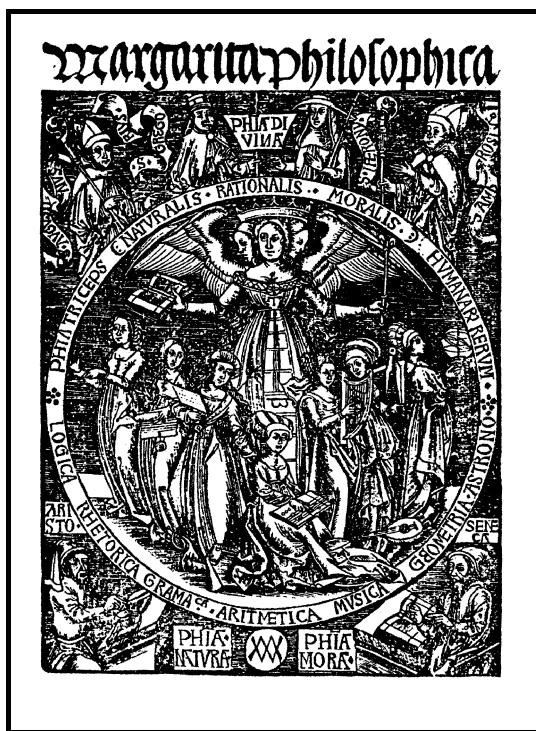
**REISCH, Gregor.** (BORN: Balingen, Württemberg, Germany, c1467; DIED: Freiburg, Germany, 9 May 1525) *German theologian.*

Reisch became a student at the University of Freiburg in 1487 and received the degree of magister in 1489. Then he entered the Carthusian Order. During the years 1500-1502 he was prior at Klein-Basel, and from 1503 to shortly before his death he was prior at Freiburg. Reisch was confessor of Maximilian I. He was also visitor for the Rhenish province of his order. In this capacity he made many exertions to combat Lutheranism. He became friends of the most celebrated Humanists of the time, e.g., Erasmus, Wimpfeling, Beatus, Rheanus, Udalricus Zasius, and the celebrated preacher, Geiler of Kaisersberg. Reisch developed a good reputation for adaptability and his knowledge was so broad and profound he became regarded as an "oracle."

REFERENCES: ADB. • *Catholic Encyclopaedia*. • Hartfelder, A., "Gregor Reisch," *Zeitschrift für die Geschichte des Oberrheins, New Series*, 5 (1890), 170-200. • Jöcher, *Gelehrten-Lexikon*, 1750-51. • Poggendorff: 2, cols. 599-600. • WBI. • Zischka, *Allgemeines Gelehrten-Lexikon*, 1961: 536.

##### 4055. — Latin, 1503 [First edition].

Margarita philosophica | [Large allegorical woodcut



MARGARITA PHILOSOPHICA, 1503

ornament representing Knowledge as a three-headed female figure, surrounded by the seven liberal Arts, within a circle inscribed with the names of the Sciences.].

4<sup>o</sup>:  $\pi^8$  1<sup>6</sup> 2-4<sup>8</sup> a-q<sup>8</sup> r<sup>6</sup> A-B<sup>8</sup> C<sup>4</sup> D-K<sup>8</sup> L-M<sup>6</sup> aa-dd<sup>8</sup> ee<sup>4</sup> ff<sup>6</sup> (ff6 blank).; 302<sup>l</sup>.; no pagination or foliation, illus., folding map, 2 folding diagrs. Woodcut illustration on the title page that includes the “MW” monogram. Printer’s marks on leaves  $\pi$ 4v and ff5v. COLOPHON: Chalchographatum primicali hac | pressura, Friburgi p Ioanne Schottu argen. citra festu Margarethē anno gratiae M.CCCCC.III.

CONTENTS:  $\pi$ 1r, Title.;  $\pi$ 1v, Blank.;  $\pi$ 2r- $\pi$ 2v, Table of contents.;  $\pi$ 3r, Full-page woodcut, “Typus Grāmaticae.”;  $\pi$ 3v, Verses to G. Reisch by Adam Vuneherus Temarensis.;  $\pi$ 4r, “Philosophiæ partitio,” being a classified scheme of knowledge, and of the arts and sciences.;  $\pi$ 4v-dd2r, Text.; dd2v-ff4v, Index.; ff5r, Epigramma of Paulus Volzcius dedicated to Georgius [!] Reisch and the colophon, “Chalchographatum primicali hac | pressura, Friburgi p Ioannē Scho | ttū Argeē. citra festū Margarethē | anno gratiæ M.CCCCC.III.”; ff5v, Full-page woodcut of Schott’s printer’s device.; ff6, Blank.

EDITIO PRINCEPS. Very rare. A popular and much reprinted work, being the first modern encyclopedia to appear in print. Handled in the form of a dialog between teacher and student, the book was written as a textbook to be consumed in a university curriculum, and provides an overview of many subjects. Reisch divides the text into twelve books, each explaining one of the sciences: (1) Grammar, (2) Dialectic, (3) Rhetoric, (4) Arithmetic, (5) Music, (6) Geometry, (7) Astronomy,

(8) Principles of Nature Philosophy (de principiis rerum naturalium), (9) Origin of Natural Objects (de origine rerum naturalium) containing references to minerals, metals and mining, (9) Psychology, (10) Logic, and (12) Ethics. The twelve editions published in the 16th century attest to its popularity. The book was very popular on account of its comparative brevity and popular form, and was for a long time a customary textbook of the higher schools. Alexander von Humboldt said of it that it had “for a half-century, aided in a remarkable manner the spread of knowledge”.

The volume is notable for several other reasons. It contains the first schematic representation of the eye, and its plate of the human brain, localizing psychological features in specific regions of the brain, is demeaningly discussed by Vesalius because it relates the three ventricles of brain to three specific functions. This diagram roughly shows the convolitional pattern of the brain and depicts the classic medieval representation of localized psychology. The numerous woodcuts show medical subjects, a mineral spring bath used by both sexes, earthquakes, scenes from the lives of different professions, monsters, beasts, fishes, comets, mining of metals and minerals. There is also a depiction of an alchemist working in his laboratory on the transmutation of metals.

The large woodcut map of the world is an interesting combination of fact and fancy, mixing the Ptolemaic world with mideaval belief. It has no border, but is surrounded by twelve heads with inscriptions representing and naming the different winds. It shows Europe, Asia and Africa, whose coast line extends along the bottom side of the map until it joins with Asia. Marks around the edge indicate longitude and latitude. The New World is not shown, although an inscription beneath the unfinished continent of Africa indicates a knowledge of the American discoveries. This map measures 300 x 411 mm. (11 x 16.5 inches) and is extremely rare and often lacking from the book for the obvious reason that it is too large to easily have been bound up.

The Strassburg printer Schott [see note below] was specially brought to Freiberg to print this work. There he established a by-press so that Reisch could oversee the publication of his work.

**Johannes Schott.** (BORN: Strasbourg, Alsace, France, 1477; DIED: Strasbourg, Alsace, France, 1550) *Alsatian/German printer.* Attempted to claim in 1521 that his uncle, Johannes Mentelin, was the inventor of printing.

REFERENCES: Choulant, *Graphische Incunabeln*, 1858: 153-4. • D’Avezac, *Martin Hylacomylus, Waltzemüller*, 1867: 94-9. • De Morgan, A., *Arithmetical books from the invention of printing to the present time*. London, Taylor & Walton, 1847: 4-8 [reviews Reisch’ account of ancient measuring systems]. • Ferguson, *Margarita Philosophica*, 1929-30: 197-201. • Gysel, C., “La face dans la ‘Margarita Philosophica’ (1503),” *Actual Odontostomatol* (Paris), 43 (Sept., 1989), no. 167, 477-503. • NUC: [NR 0152665]. • Sabin, *Dictionary*, 1868-1936: no. 69122. • Wellcome Catalog (Books): 1, no. 5409. (Schott) ADB. • DBE.

**4056. 2nd edition, 1504:** Aepitoma Omnis Phylsophiæ Ali- | as Margarita Phylsophica tractans | de omni genere scibili: Cum additionibus: Quę in alijs non habentur. |

[Large allegorical woodcut].

4<sup>o</sup>: B-C6 D-F8 Fix-xxviii G<sup>8</sup> H<sup>6</sup> I<sup>8</sup> K<sup>4</sup> L-N<sup>8</sup> O<sup>6</sup> P-Q<sup>8</sup> R<sup>6</sup> S-V<sup>8</sup> X<sup>6</sup> Y-Z<sup>8</sup> a<sup>8</sup> b<sup>4</sup> c<sup>7</sup> d-e<sup>8</sup> f<sup>6</sup> g-h<sup>8</sup> i<sup>4</sup> k-l<sup>8</sup> m<sup>6</sup> n-p<sup>8</sup>; 287ℓ.; no pagination or foliation. COLOPHON (p8r): "Explicit philosophica Margarita. Castigatione acri / In nobili Helueciorū | ciuitate Argentina Chalcogra-phatū: Per Ioannē Grüninger Ciuē Argētīnū: | ī vigilia / Mathiē Anno incarnationis Saluatoris M.ccccc.iiij. | Valet & Plaudite."

CONTENTS: B1r, Title.; B1v-B2r, Contents, immediately followed by the author's address to the "ingenui Adolescentes."; B2v, Full-page woodcut, "Typus Grāmatio."; B3r, "Gregorio Reisch generosi Comitis | de Zolrn alumno: Adam Vuenherus | Temarensis. Salutem P.D."; B3v, "Philosophiæ Partitio."; B4r-o3r, Text.; o3r-p8r, Index.; p8v, Blank.

VERY RARE. An unauthorized reprint of the first edition (J. Grüninger, 23. Febr. 1504), with the addition of a synopsis of Hebrew grammar in twenty leaves (on signatures Fix to Fxxviii). The title page woodcut was copied from the first edition, with slight alterations. The large woodcut map has been reengraved from the one in the first edition. It is surrounded, however, by a black line border, and contains only four heads representing the four principal winds. In the first edition the seas and oceans are separated from the land by mere outlines, but in this one the water is distinguished by wavy lines.

Second edition, the first by Grueninger. With numerous woodcuts and fold. world map (Shirley 23A), which is a rare variant with remarkable differences in the printing of the nomenclature and also another styling of the windheads. "It seems possible that this unrecorded variant may predate the normal four-headed version" (Sh.). Map with small watermark "tête de boeuf",

Johann (Reinhard) Grüninger. (BORN: ; DIED: Strassburg, Alsace, France, 1529?) *German printer.* Grüninger's earliest dated book is the Petrus Comestor's *Historia Scholastica*, completed 28 August 1483.

REFERENCES: D'Avezac, *Martin Hylacomylus, Waltzemüller*, 1867: 103-4. • Ferguson, *Margarita Philosophica*, 1929-30: 201-2. • NUC: [NR 0152657]. • Sabin, *Dictionary*, 1868-1936: no. 69123. • Smith, *Rara Arithmetica*, 1908: p. 82-3. • VD16: R-1034. (Grüninger) ADB. • BMC XV.

**4057. 3rd edition, 1504:** *Margarita Philosophica*. | [Large allegorical woodcut].

8<sup>o</sup>: π<sup>6</sup> a-c<sup>6</sup> d-z<sup>8</sup> aa-pp<sup>8</sup> qq<sup>6</sup> rr<sup>8</sup> ss<sup>4</sup> tt<sup>8</sup> (b4 misprinted bb4; t7 blank); 330ℓ.; no pagination or foliation. 2 folding musical plates, folding map of the world, 24 full-page woodcuts (several colored in whole or in part), numerous other textual & marginal woodcuts, text printed in Roman type with contractions, index & rules for declensions in first book printed in black letter.

CONTENTS: π1r, Title.; π1v, Verses to Reisch by Adam Vuernherus Temarensis, dated 3 January 1496.; π2r, Contents.; π2v, Full-page woodcut, "Typus Grāmattice."; π3r, "Philosophiæ parititio."; π3v-qq6v, Text.; qq6v, "Ingenui Adolescentes."; rr1r-tt4v, Index.; tt4v, Colophon.; tt5r-tt6r, Verses by Theodoricus Vlsenius Phrisius on the *Margarita Philosophica*; tt6v-tt7r, Errata.; tt7v, Schottus' printer's device.; tt8r-tt8v, Blank.

VERY RARE. Third edition, the second authorized by the printer, of the manifesto of the new learning in Germany. The colophon states that the printer was of Strassburg, but the place of printing is not given and is postulated by Adams, for example, to be Freiburg. Published in March of 1504, this followed Schott's first edition of 1503 and an edition by Johann Grüninger from February, 1504, which Schott, in the colophon of the present volume, asks the reader not to purchase. He also criticizes the piracy for including a Hebrew grammar that Reisch did not write.

REFERENCES: Adams, *Cambridge Books*, 1967: R-333. • D'Avezac, *Martin Hylacomylus, Waltzemüller*, 1867: 99-103. • Ferguson, *Margarita Philosophica*, 1929-30: 202-5. • NUC:

[NR 0152666]. • Sabin, *Dictionary*, 1868-1936: no. 69124. • Wellcome Catalog (Books): 1, no. 5410.



MARGARITA PHILOSOPHICA, 1508 (BASEL)

**4058. 4th edition, 1508:** [In red:] *Margarita philosophica* | cū additionibus nouis: ab auctore suo | studiosissima reuisiōe tertio supadditis. | [in black, woodcut ornament] | [in red:] Jo. Schottus Argeñ. lectori S. | [in black:] Hanc eme/ non pressam mendaci stigmatē/ Lector: | Pluribus ast auctam perlege: doctus eris. | [in red:] Basileę. 1508.

4<sup>o</sup>: a-z<sup>8</sup> A-N<sup>8</sup> O-P<sup>6</sup> Q-R<sup>8</sup>; 316ℓ.; no pagination or foliation. Title printed in red and black. Printed in Gothic type. Map and 2 diagrams.

CONTENTS: a1r, Title, verso "Philesius vogesigena de laudibus | ⁊ fructu Margaritę philosophicę | ..."; a2r, Contents.; a3r, Full-page woodcut, "Typis Grāmattice," verso text.; P6r, "Index sūmarius."; R7r, Colophon.; R7v, Verses to Reisch by Adam Wernherus temarensis.; R8r, Verses by Jacobus Philomusus to the *Margarita*; R8v, Blank.

RARE. The third authorized edition, fourth overall. The map is a reprint of the one in Schott's second edition, with the twelve wind heads.

REFERENCES: D'Avezac, *Martin Hylacomylus, Waltzemüller*, 1867: 99 & 104-6. • Ferguson, *Margarita Philosophica*, 1929-30: 205-6. • NUC: [NR 0152667]. • Sabin, *Dictionary*, 1868-1936: no. 69125.

**4059. 5th edition, 1508:** *Margarita Philosophica Noua* | [Large allegorical woodcut].

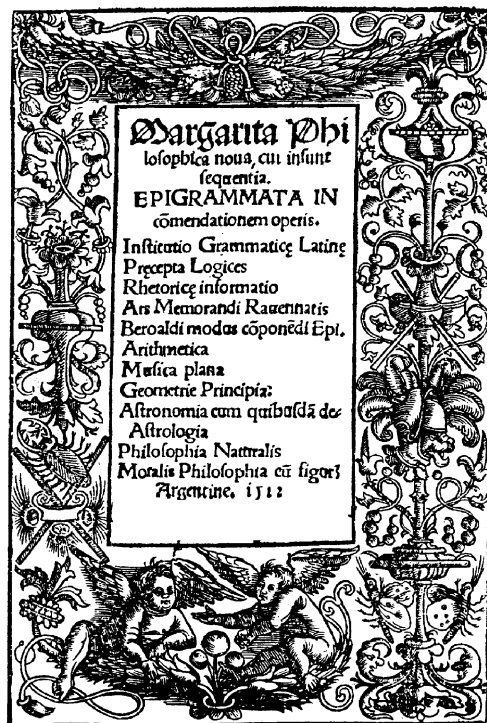
4<sup>o</sup>: π<sup>6</sup> A-E<sup>6</sup> F<sup>4</sup> G<sup>h</sup>8 I<sup>6</sup> K<sup>4</sup> L<sup>6</sup> M<sup>8</sup> N-O<sup>6</sup> P<sup>4</sup> Q-S<sup>6</sup> T-V<sup>8</sup> X<sup>6</sup> y<sup>8</sup> AA<sup>8</sup> bb-cc<sup>6</sup> DD-GG<sup>8</sup> HH<sup>4</sup> II<sup>6</sup> KK<sup>8</sup> a<sup>6</sup> b-f<sup>8</sup> g<sup>6</sup> h<sup>4</sup> i-k<sup>6</sup> l<sup>4</sup> m-n<sup>8</sup> o<sup>6</sup> p<sup>8</sup> q<sup>6</sup> r<sup>8</sup> (π1 and π6 blank); 322ℓ.; no pagination or foliation. Map and one plate containing 2 diagrams. The title woodcut is the same as that in Grüninger's edition of 1504 (second edition).

CONTENTS: π1, Blank.; π2r, Title.; π2v, "Vdalcrici Zasii LL. Doctoris. ..."; π3r, "Suo Gregorio reisch generosi

comitis de zolrn alumno: Adam wernherus temarensis Salutem. P.D.”;  $\pi 3v$ , “In eminentem Margaritam artificem situ Cylipediam effingentem Jacobi Philomusi Oratoris Poetęq; lauretai Epigramma ...”;  $\pi 4r$ , “Elegiacum Petri Schotti Argentineę. ...”;  $\pi 4v$ , “Philesius vogesigena de laudibus & fructu Margaritę philosophicę ...”;  $\pi 5r$ , “Ex Arte fieri omnia meliora Carmen I. A. ...”;  $\pi 5v$ , “Epigrāma fratris pauli wolffii Offoburgii cęnobite Schutterani: Saphicum ad auctorem Margaritę philosophicę ...”;  $\pi 6$ , Blank.; A1r-A1v, Contents.; A2r, Full-page woodcut, “Typus Grāmatio.”; A2v, “Philosophię partitio.”; A3r-p2r, Text.; p2v, Address to “ingenui adolescentes.”; p3r-p4r, “Angeli politiani prelectio, Cui titulus Panepistemon.”; p4v, Title woodcut is repeated.; q1r-r4r, Index.; r4v, Blank.

RARE. Grüninger's second unauthorized edition, with improvements and additions. Among them was a treatise on architecture on architecture and perspective by Martinus Ilacomilus (Waltzemüller). The map is a reprint of the one in Grüninger's first edition, with the four wind heads and a plain border.

REFERENCES: D'Avezac, *Martin Hylacomylus, Waltzemüller*, 1867: 106-10. • NUC: [NR 0152672]. • Sabin, *Dictionary*, 1868-1936: no. 69126.



MARGARITA PHILOSOPHICA NOUA, 1512

4060. 6th edition, 1512: [Contained within an elaborate woodcut border:] Margarita Phi | losophica noua, cui insunt | sequentia. | Epigrammata In | cōmendationem operis. | Instutio Grammaticę Latinę | Precepta Logices | Rhetoricę informatio | Ars Memorandi Rauennatis | Beroladi modus cōponēdi Epi. | Arithmetica | Musica plana | Geometrie Principia: | Astronomia cum quibasdā de- | Astrologia | Philosophia Naturalis | Moralis Philosophia cū figuris Argentine. 1512.

[TITLE OF APPENDIX READS:]

Appendix Ma- | theses in Margaritā phi | losophicam. | Sequuntur nonuatim que | in hac appēdice cōplectunt | Grecaz literarū instituiōes | Hebraicarum litterarū ru-

dimenta | architecture rudimenta | Quadrantum varie compo | sitiones. | Astrolabij Messahalath cō | positio. | Astrolabij noui geographi | ci compositio | Formatio | Torqueti. | Formatio polimetri. | Usus ꝑ vtilitatis eorūdem | omnium. | Figrua quadrātis poli | gonalis. | Quadratura circuli. | Cubatio sphere. | Perspectiue phisice ꝑ positi | ue rudimenta | Cara vniuersalis terre ma | risq; neotericam descriptio | nem indicans.

4<sup>o</sup>: A<sup>4</sup> B-Z<sup>8</sup> a-k<sup>8</sup>; 260ℓ.; no pagination or foliation. ill., music (woodcuts). Includes index. Illustrated title-page. In Gothic letter. Sometimes found with: Appe[n]dix matheseos in Margarita[m] philosophica[m]. [Strasbourg]: Per Ioannem Gruninger ex Argenterato veteri, pridie Kalendas Iunij [May 31] anno redemptionis nostr[ae] 1512. Issued together.

CONTENTS: A1r, Title.; A1v, Blank.; A2r-A2v, “Elegiacum Petri Schotti Argentineę. ...”; A3r, “Ex Arte Fieri Omnia | Meliora Carmen ...”; A3v, Contents.; A4r, “Philosophie partitio.”; A4v, Full-page woodcut, “Typus Grāmatio.”; B1r-i2v, Text.; i3r-k8r, Index in double columns.; k8v, Blank.

RARE. Grüninger's third unauthorized edition. The map of the world is the same as the one in Grüninger's earlier editions, containing the figures of the four wind heads, and surrounded by a plain border. This edition includes for the first time an “Appēdix Matheseos” (pp. 128), which contains treatises on the astrolabe, perspective (copied from Jean Pelerin), etc. However, not all copies of Reisch's book appear to have been bound with the appendix.

REFERENCES: Ferguson, *Margarita Philosophica*, 1929-30: 208-10. • NUC: [NR 0152677]. • Sabin, *Dictionary*, 1868-1936: no. 69127.

4061. 7th edition, 1515: [Contained within an elaborate woodcut border:] Margarita Phi- | losophica noua Cui annexa | sunt sequentia. | Greearum literaz institutiones | Hebraicaz literatum rudimēta | Architecture rudimenta | Quadrantū varie cōpositiōes. | Astrolabij noui geographici 3pō. | Formatio Torqueti. | Formatio Polimetri | Usus ꝑ vtilitatis eorundem omnium. | figura quadrantis polygonalis | Quadratura circuli. | Cubatio sphere. | Perspectiue phisice ꝑ positive rudi- | menta. | Cartha vniuersalis terre marisq; for | mam neoterica descriptiōe indicās.

[TITLE OF APPENDIX READS:]

Appendix Ma- | theses in Margaritā phi | losophicam. | Sequuntur nonuatim que | in hac appēdice cōplectunt | Grecaz literarū instituiōes | Hebraicarum litterarū ru- | dimenta | architecture rudimenta | Quadrantum varie compo | sitiones. | Astrolabij Messahalath cō | positio. | Astrolabij noui geographi | ci compositio | Formatio | Torqueti. | Formatio polimetri. | Usus ꝑ vtilitatis eorūdem | omnium. | Figrua quadrātis poli | gonalis. | Quadratura circuli. | Cubatio sphere. | Perspectiue phisice ꝑ positi | ue rudimenta | Cara vniuersalis terre ma | risq; neotericam descriptio | nem indicans.

4<sup>o</sup>: A<sup>4</sup> B-Z<sup>8</sup> a-k<sup>8</sup> AB<sup>6</sup> CD<sup>6</sup> E-F<sup>4</sup> G-H<sup>6</sup> I<sup>4</sup> K-N<sup>6</sup> O<sup>4</sup>; 324ℓ.; no pagination or foliation. The title border is the same as the edition of 1512.

CONTENTS: A1r, Title.; A1v, Blank.; A2r-A2v, “Elegiacum Petri Schotti Argentineę. ...”; A3r, “Ex Arte fieri omnia | Meliora Carmen.”; A3v, Contents.; A4r, “Philosophie Partitio.”; A4v, Full-page woodcut, “Typus Grāmatio.”; B1r-i2v, Text.; i3r-k8r, “Index Summarius,” in double column.; k8v, Blank.; [Appendix] AB1r, Title.; AB1v-O4v, Text.

RARE. Grüninger's fourth unauthorized edition, accompanied by an appendix. The map of the world is the same as Grüninger's earlier editions, with plain border and the head figures representing the winds.

REFERENCES: NUC: [NR 0152679]. • Sabin, *Dictionary*, 1868-1936: no. 69128.

4062. 8th edition, 1517: [Printed on a scroll inside a border consisting of figures of nude children, medallions grotesques, etc.] Margartia | Philosophica cū |



# REISCH

additionibus nouis: | ab auctore suo | studiosissima | reuisione | quarto | super | addi | tis | Anno domini. M.D.XVII.

4<sup>o</sup>: a-d<sup>8</sup> e<sup>4</sup> f-z<sup>8</sup> A-O<sup>8</sup>; 292ℓ.; no pagination or foliation.

CONTENTS: a1r, Title.; A1v, Woodcut showing knowledge with the tree of science erupting from her. Below it are the wording, "Io. Schottus Argentinen. lectori S. | Hanc eme, non pressam mendaci stigmatē, Lector: | Pluribus ast sauctam perlege, doctus eris. | Basileę. M D X VII."; a2r, Philesius verses.; a2v, "Margarita philosophica ..."; a3r, "Philosophie partitio."; a3v, Woodcut, "Typus Grammaticę."; a4r-M4r, Text.; M4v, Blank.; N1r-O6v, Index.; N7r, "Ad Lectorem Auctoris Conclusio."; N7v, Wernherus verses to Reisch.; N8r, Philomusus' verses, followed by the colophon.; N8v, Blank.

RARE. The fourth authorized edition. The map is like the one in Schott's first edition, with the twelve head winds.

Facsimile reprint, 1973: Margarita philosophica. Mit einem Vorwort, einer Einleitung und einem neuen Inhaltsverzeichnis von Lutz Geldsetzer. Dusseldorf, Stern, [c1973]. 8<sup>o</sup>: xlv, vi, 583 p. illus. (part fold.).

Published as a volume in a series: *Instrumenta philosophica. Series thesauri*, 1. Reprint of the 4th, enlarged edition published in Basel in 1517, together with an introduction in German.

REFERENCES: Ferguson, *Margarita Philosophica*, 1929-30: 213-4. • NUC: [NR 0152669]. • Sabin, *Dictionary*, 1868-1936: no. 69129. • Wellcome Catalog (Books): 1, no. 5411.

4063. 9th edition, 1535: [Contained within an elaborate woodcut border:] Marga- | rita philosophica, rati- | onalis, moralis philosophiæ princi- | pia, duodecim libris dialogice cõple- | tens, olim ab ipso autore recognita: | nuper aut ab Orontio Fineo Delphi | nate castigata & aucta, unâ cum ap- | pendicibus itidem emēdatis, & quā | plurimis additionibus & figuris, ab | eodem infignitis. Quorū omni- | um copiosus index, uersa | continetur pagella. | Virescit uulnere uirtus. | Basileæ 1535.

[TITLE OF APPENDIX READS:]

Appendices | In Margaritam Philosophicam. | In I. librum. | Græcarum & Hebraicarum literarum institutiones. | In III. librum. | Conclusiones artis memoratiuæ. | De componendis Epistolis Compendium. | In IIII. librum. | Introductio Iacobi Fabri Stapulensis in Arithmetica Seue | rini Boëtij pariter & Iordani. | Ars supputandi Iudoci Clithouei. | Quæstio haud indigna de numerorum & per digitos & per | articulos finita progressionē ex Augustino. | Epitome rerum geometricarū ex geometrico introductorio | Caroli Bouilli. | De Quadratura circuli demonstratio ex Campano. | In V. librum. | Musica Figuratæ rudimenta. | In VI. librum. | Quadratura circuli. Bis. | Cubicatio sphaeræ. | Rudimenta Architecturæ positiuæ. | Virga uisoria, seu baculus uisurandi, cum eius ueraci figura, | & utilitatibus. | In VII. librum. | Quadrantum uariæ compositones, & usus. | Astrolabij declaratio & commoditas. | Speculum orbis, & eius elucidatio. | Formationes Torqueti, Polymetri, & quadrantis polygo- | nalis, cum eorundem omnium utilitatibus. | Charta uiuersalis terræ, marisq, secundum neotericos. | Proiectio sphaeræ in planum. Bis. | In X. librum. | Perspectiuæ physicæ & positiuæ rudimenta.

4<sup>o</sup>: a-e<sup>8</sup> A-Z<sup>8</sup> aa-zz<sup>8</sup> Aa-Zz<sup>8</sup> AA-ZZ<sup>8</sup> Aaa<sup>12</sup>; 793ℓ.; [80], 1498, [8] p., [2] leaves of plates: ill., map, music. Errata: 2 p. (at end). Title within decorative border; head and tail -pieces, initials. Includes index. 2 maps and a plate containing 2 diagrams. COLOPHON: Basileæ excudebat Henricvs | Petrus, ac Conradi Reschij impensis. An<sup>o</sup> | M. D. XXXV. PAGE SIZE: 150 x 208 mm.

CONTENTS: a1r, Title.; a1v, List of books in the Margarita not in the Appendix.; a2r-a2v, Letter from Oronce Finé to Michael Boudet, Lingonensium Episcopus, dated 1532.; a3r-a3v, Two poems.; a4r, "Philosophi

quomodo legendi, ex Basilio."; a4v, "Philosophiæ Partitio."; a5r-e8r, Index.; e8v, Woodcut, "Typus Grammaticę."; A1r-Yy8r (pp. 1-1097), Text.; Yy8v, Blank.; Zz1r-AAa8v (pp. 1099-1498), Appendices.; AAa9r, Woodcut illustrating perspective.; AA9v, "Finit Margarita Philosophica ..."; AAa10r-AAa10v, "Errata."; AAa11r, Colophon: "Basileæ Excudebat Henricus | Petrus, ac Conradi Reschij impensis. An. | M.D.XXXV."; AAa11v, Blank.; AA12v, Petri's device.

RARE. The preface by Oronce Finé [see note below] is dated "Parisijs ex regali collegio Nauarræ. 1523," which would suggest that there is an edition of that date. However, since no edition near that year exists, it is more likely a misprint for 1533. The text is preceded by the index. "This edition gives only part of the elaborate engravings found in the earlier ones. It is, however, much better printed, being set in clear Roman type and having a more open page." (Smith). The map in the first section is like the one in the first edition with the twelve head winds. The appendices fill pages 1099 to 1498 and include: "Declaratio Specvli Orbis" by Gualtero Lud. Canonico Deodatensi (pp. 1421-1424), "Nova Terræ descriptio secvndvm Neotericorum obseruantiam" (pp. 1433-1434), followed by a crude, folding woodcut map, with the inscription at the top "Typis vniversalis terræ, iuxta modernorvm distinctionem et exteonem per regna et provincias." This map shows a portion of America with the inscription, "Paria seu prisilia."

Oronce Finé. (BORN: Briançon, France, 20 December 1494; DIED: Paris, France, 6 October 1555) *French mathematician*. In 1530 Finé (Fineus, Finæus) was appointed professor of mathematics at the Collegio (later Collège de France) in Paris. He was the author of numerous scientific works and the inventor of mechanical and astronomical devices.

REFERENCES: Ferguson, *Margarita Philosophica*, 1929-30: 214-5. • NUC: [NR 0152680]. • Sabin, *Dictionary*, 1868-1936: no. 69130. • Smith, *Rara Arithmetica*, 1908: p. 84. • Wellcome Catalog (Books): 1, no. 5412. (Finé) *Biographie Universelle*. • DSB: 15, 153-7 [by E. Poulle]. • *Nouvelle Biographie Générale* (Hoefer). • Poggendorff: 1, cols. 747-8. • Thomas, *Dictionary of Biography*, 1884: 919. • Zischka, *Allgemeines Gelehrten-Lexikon*, 1961: 212.

4064. 10th edition, 1583: Margarita Philo- | sophica, | Hoc est, | Habitvum sev | Disciplinarvm Omnium, | Qvotqvot Philosophiæ Syn- | cerioris ambitu continentur, perfectissima | ΚΥΚΛΙΑΙΔΕΙ'Α. | A'. | F. Gregorio Reisch, *Dialogismis* | primū tradita: Dein ab Orontio Finæo Delphi- | nate, Regio Parisiens Mathematio, necessarijs | aliquot Auctarijs locupletata. | Nunc verò innumeris in locis restituta, in eumq, nitorem | reuocata, vt studiosis omnibus, ad pellendam bo- | narum artium famem, Penus loco | esse possit. | Indicem librorum frequens docebit pagina. | Cum Gratia & Priuilegio Cæs. Maiest. | Basileæ, | Per Sebastianvm Hen- | ricpetri.

4<sup>o</sup>: a-b<sup>8</sup> c<sup>4</sup> A-Z<sup>8</sup> aa-zz<sup>8</sup> Aa-Zz<sup>8</sup> AA-TT<sup>8</sup> (TT8 blank); 724ℓ.; [40], 1403, [5] p. RARE.

CONTENTS: a1r, Title.; a1v, List of books in the Margarita and in the appendix.; a2r-a3r, Letter from Oronce Finé to Michael Boudet, Lingonensium Episcopus, dated Paris M.D.XXIII.; a3v-a4r, Poems.; a4v, "Philosophi quomodo legendi, ex Basilio."; a5r, "Philosophiæ Partitio."; a5v-c3v, Index.; c4r, Woodcut title of the first edition of 1503, omitting the words (much worn); c4v, Woodcut "Typus Grammaticę."; A1r-Ss7v (pp. 1-1022), Text.; Ss8r-TT6r (pp. 1023-1402), Appendices.; TT6v, Woodcut illustrating perspective.; TT7r, Colophon: "Basileæ, | Per Sebastianum Hen- | ricpetri, Anno Salvts. | M.D.LXXXIII. | Mense Martio."; TT7v, Henricpetri's printer's device within an elaborate border.; TT8, Blank.

REFERENCES: Ferguson, *Margarita Philosophica*, 1929-30: 215-6. • NUC: [NR 0152671]. • Sabin, *Dictionary*, 1868-1936: no. 69131.

**4065. Italian transl., 1599:** Margarita | filosofica | del R.<sup>do</sup> P.F. Gregorio Reisch, | nella quale si trattano con bellissimo, & breue metodo | non solo tutte le doctrine comprese nella | Ciclopedia dagli antichi, | Cioè Cerchio, ouer Rotolo delle scienze; | ma molte altre ancora aggiuntevi | di nouo da Orontio Fineo Matematico Regio. | Tradotta nuouamente dalla lingua Latina nell' Italiana da Giovan Paolo Gallucci Salodiano | Accademico Veneto; | E dal medesimo accresciuta di varie, e bellissime cose | comenella Nona Pagina si vede. | Non meno per i curiosi diletteuole, che vtile, e gioueuole per gli Studiosi. | Con Licencia de' Superiori, & Priuilegij. | [vignette] | In Venetia, M. D. XCIX. | Appresso Iacomo Antonio Somascho.

4<sup>o</sup>: [24], 1138 p., illus., maps, music. With 5 engravings by Jan Sadeler after Marten de Vos (inserted?). Title in red and black. Woodcuts throughout, some fullpage. Folded diagram at page 262.

RARE. Translated by Giovanni Paolo Gallucci [see note below], with additions by the mathematician, Oronce Finé [1494-1555] and an introduction by Faber Stapulensis to the arithmetics of Boethius and Jordanus. The additions are substantial and comprise instructions on arithmetic and practical music. The large symbolic plates and many textual illustrations have been omitted, while those that are retained are inferior in execution to earlier editions. (Ferguson). "This Italian translation, which contains many additions on arithmetic and music is much scarcer than any edition of the Latin original."—*Libri Catalogue*.

**Giovanni Paolo Gallucci.** (BORN: Salo near Brescia, Italy, 1538; DIED: 1631?) *Italian astronomer.* The Italian Gallucci was a renowned astronomer whose contributions, especially in the field of astronomical instruments, greatly advanced the scientific knowledge of the 16th and 17th centuries.

REFERENCES: Ferguson, *Histories of Inventions*, 1981: IV, 17-23. • NUC: [NR 0152662]. • Riccardi, *Biblioteca Mathematica Italiana*, 1893: 1, 572. • Sabin, *Dictionary*, 1868-1936: no. 69132. (Gallucci) *Biographie Universelle*. • *Dizionario Biografico Italiani*. • Jöcher, *Gelehrten-Lexikon*, 1750-51. • *Nouvelle Biographie Générale* (Hoefer). • Poggendorff: 1, cols. 838-9. • WBI.

**4066. Italian transl., 1600:** Margarita Filosofica, nella quale si trattano ... tutte le Dottrine comprese nella Ciclopedia dagli Antichi ... ma molte altre ancora. Aggiuntevi di nouo da Orontio Fineo, tradotta nuouamente da Giovan Paolo Gallucci, et accresciuta di varie e bellissime Cose ... Venetia, Appresso Iacomo Antonio Somascho, 1600.

4<sup>o</sup>: [24], 1-790, [2], 795-1138 p., one folding diagram. Title in red and black.

RARE. Reprint of the 1599 edition with a new date on the title page.

REFERENCES: NUC: [NR 0152664].

**REMLER, Johann Christian Wilhelm.** (BORN: Oberbösa, Amt Weissensee, Germany, 21 April 1759; DIED: Naumburg on the Saale, Germany, 29 April 1834) *German apothecary.*

From 1801, Remler was an apothecary at Naumburg on the Saale river. He held membership in the Akademie der Wissenschaften in Erfurt.

REFERENCES: DBA: I 1022, 46-48; II 1061, 261-262. • *Deutsche Apotheker Biographie Supplement I*: 358-9. • Hamberger & Meusel, *Gelehrte Teutschland*, 1796-1834. • Meusel, *Verstorbenen Teutschen Schriftsteller*, 1802-16. • Poggendorff: 2, col. 603. • WBI.

#### 4067. — German, 1790.

Tabellen, | welche das | Verhältnis und die Menge der Bestandtheile der, in neuern Zeiten genauer untersuchten, Stein= und Erd=Arten, in 100 Granen bestimmt. | Zur bequemen Uebersicht

für Naturforscher, Mineralogen, Technologen und Naturliebhaber, entworfen von J.C.W. Remler. | [At bottom of table:] Erfurt 1790, bey Georg Adam Keyser. | [rule] | gedruckt bey Joh. Fr. Nonne, Jun.

Oblong 2° broadsheet. PAGE SIZE: 400 x 500 mm.

VERY RARE. The text of this broadsheet consists of 3 major columns. Within each are subcolumns with headings indicating the name of the stone, and its composition in terms of calcium, silica, potassium, aluminum, Kieselerde, iron and water. The species are listed alphabetically and gives composition in terms of percentages of the elements. Remler provides references to where the full analyses can be found.

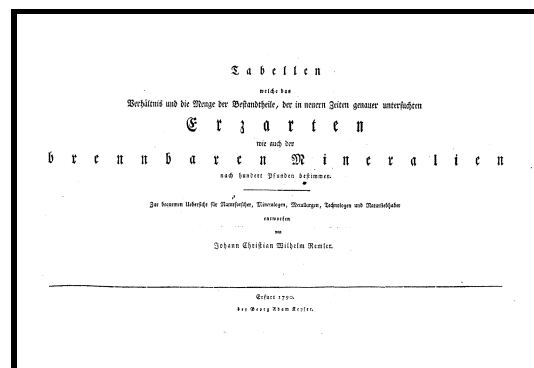
REFERENCES: GV (1700-1910): 116, 209. • LKG: XI 14.

**4068. Supplement, 1791:** Supplement A. | Zu der | Tabellen, | welche das | Verhältnis und die Menge der Bestandtheile der, in neuern Zeiten genauer untersuchten, Stein= und Erd=Arten, in 100 Granen bestimmt. | Zur bequemen Uebersicht für Naturforscher, Mineralogen, Technologen und Naturliebhaber, entworfen von J.C.W. Remler. | [At bottom of table:] Erfurt 1791. bey Georg Adam Keyser. | [rule] | gedruckt bey Joh. Fr. Nonne, Jun.

Oblong 2° broadsheet. PAGE SIZE: 400 x 500 mm.

VERY RARE. The format is the same as Remler's *Tabellen* published the previous year.

REFERENCES: GV (1700-1910): 116, 209.



TABELLEN, 1790

#### 4069. — German, 1790.

Tabellen, | welche das | Verhältnis und die Menge der Bestandtheile, der in neuern Zeiten genauer untersuchten | Erzarten | wie auch der | brennbaren Mineralien | nach hundert Pfunden bestimmen. | [rule] | Zur bequemen Uebersicht für Naturforscher, Mineralogen, Metallurgen, Technologen und Naturliebhaber | entworfen | von | Johann Christian Wilhelm Remler. | [rule] | Erfurt 1790. | bey Georg Adam Keyser.

Oblong 4°: π<sup>2</sup> B-D<sup>2</sup> E<sup>1</sup>; 9ℓ.; [1]-18 p. PAGE SIZE: 210 x 375 mm.

CONTENTS: [1-2], Title page, verso blank.; [3], Dedication to Christian Friedrich Voigt.; [4], Blank.; [5]-18, Text.

VERY RARE. The text of this work consists of a series of tables indicating the composition of various

## REMY

mineral species. Column headings indicate the specific elements, while percentages under a head show the amount contained in the specific species.

REFERENCES: LKG: IX 15a.

### REMY, Pierre. *French painter & artist.*

Based in Paris, Remy supplemented his income through preparing collection catalogs for wealthy patrons. He specialized in describing sculptures, bronzes, paintings, and items of natural history, especially minerals.

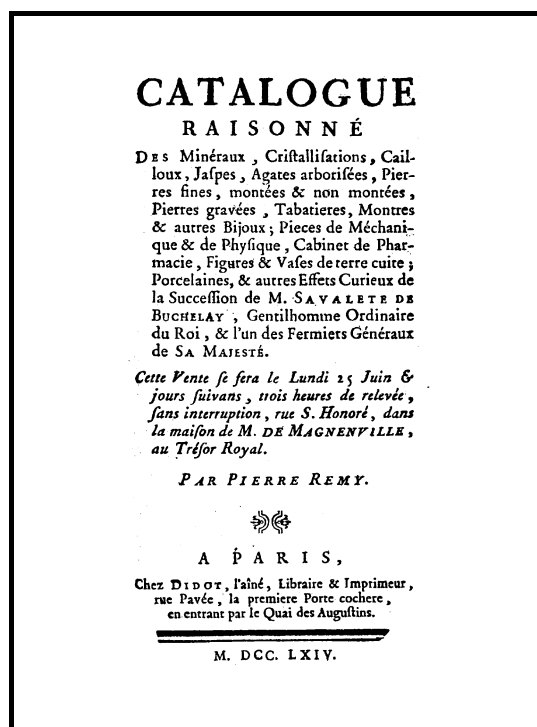
REFERENCES: Laissus, *Cabinets d'Histoire Naturelle*, 1964: 667-8.

### 4070. — French, 1763.

Catalogue d'une Collection de très belles coquilles, madrépores, Stalactiques ... Animaux, Oiseaux, Bijoux Et autres Morceaux qui Composent le Cabinet de feu Madame de B\*\* [Bure] ... par P. Remy. Paris: Didot, 1763.

12°: x, 72 p., one engraved plate by Aug. de Saint-Aubin. RARE.

REFERENCES: CBN: 148, cols. 1024-33.



CATALOGUE RAISONNÉ DES MINÉRAUX, 1764

### 4071. — French, 1764 [Collection catalog].

Catalogue | Raisonné | Des Minéraux, Cristallisations, Cail- | loux, Jaspes, Agates arborisées, Pier- | res fines, montées & non montées, | Pierres gravées, Tabatieres, Montres | & autres Bijoux; Pieces de Méchani- | que & de Physique, Cabinet de Phar- | macie, Figures & Vases de

terre cuite; | Porcelaines, & autres Effets Curieux de | la Succession de M. Savalette de | Buchelay, Gentilhomme Ordinaire | du Roi, & l'un des Fermiers Généraux | de Sa Majesté. | Cette Vente se fera le Lundi 25 Juin & | jours suivans, trois heures de relevée, | sans interruption, rue S. Honoré, dans | la maison de M. De Magnenville, | au Trésor Royal. | Par Pierre Remy. | [ornament] | A Paris, | Chez Didot, l'ainé, Libraire & Imprimeur, | rue Pavée, la première Porte cochère, | en entrant par le Quai des Augustins. | [double rule] | M. DCC. LXIV.

12°: a<sup>4</sup> b<sup>2</sup> A-C<sup>12</sup> D<sup>8</sup> E<sup>2</sup>; 52l.; [i]-vij (i.e., viij), [9]-11, [1], [1]-91, [1] p., frontispiece (signed Aug. de Saint-Aubin). Page viij misnumbered vij. PAGE SIZE: 160 x 90 mm.

CONTENTS: [i-ii], Title page, verso blank.; [iii]-vij (i.e., viij), "Avertissement."; [9]-11, "Table | Des Objets contenus dans ce Catalogue."; [1 pg], Blank.; [1]-88, Text.; 89-91, "Indication | Des Catalogues que P. Remy a fait seul | & en société pour des Ventes." [=list of Remys writings].; [1 pg], Blank.

RARE. A 1764 auction catalog in 686 lots of Savalette de Buchelays [see note below] cabinet of natural history items and scientific instruments. Contained in the collection are minerals, crystallizations, stones, jaspers, agates, precious stones, mechanical devices, physics equipment and a pharmaceutical cabinet. The mineral collection formed the nucleus of the cabinet of Varenne de Béosts collection.

Savalette de Buchelay. (BORN: ; DIED: ) *French mineral collector.* French "Farmers-General" under Louis XV. His collection consisted of minerals, crystallizations, stones and other curious items.

REFERENCES: CBN: 148, cols. 1024-33. • Laissus, *Cabinets d'Histoire Naturelle*, 1964: 675, 694 & 695. • LKG: XV 18. • Wilson, *History of Mineral Collecting*, 1994: 52, 191 & 223. (Savalette de Buchelay) Laissus, *Cabinets d'Histoire Naturelle*, 1964: 694. • Wilson, *History of Mineral Collecting*, 1994: 191.

### 4072. — French, 1766 [Sale catalog].

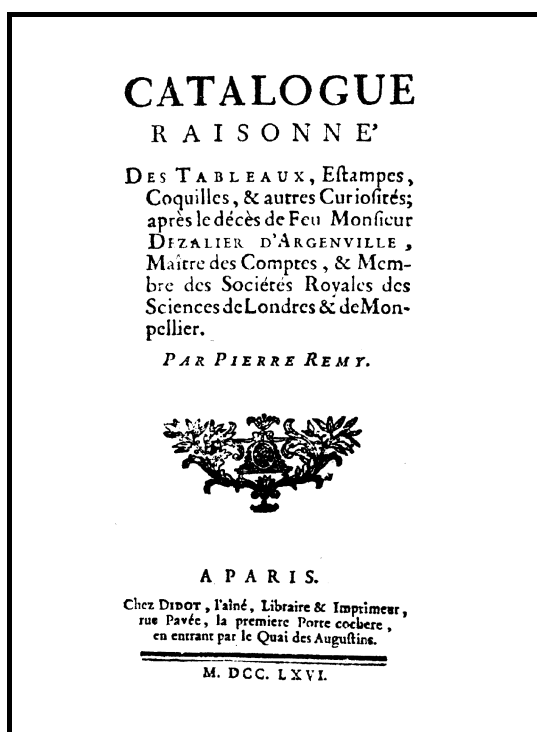
Catalogue | Raisonné | Des Tableaux, Estampes, | Coquilles, & autres Curiosités; | après le décès de Feu Monsieur | Dezalier d'Argenville, | Maître des Comptes, & Mem- | bre des Sociétés Royales des | Sciences de Londres & de Mon- | pellier. | Par Pierre Remy. | [ornament] | A Paris. | Chez Didot, l'ainé Libraire & Imprimeur, | rue Pavée, la première Porte cochère, | en entrant par le Quai des Augustins. | [double rule] | M. DCC. LXVI.

12°: xii, 152 p., one engraved plate by Aug. de Saint-Aubin. RARE.

REFERENCES: CBN: 148, cols. 1024-33.

### 4073. — French, 1768.

Catalogue d'une Collection de belles Coquilles, Coraux, Madrépores, Cristallisations ... composant le Cabinet de feu M. le M<sup>is</sup> de Bausset, ... par P.



CATALOGUE RAISONNÉ, 1766

Remy. Paris: Vente, 1768.

12°: 66 p. RARE.

REFERENCES: CBN: 148, cols. 1024-33.

**4074. — French, 1770.**

Catalogue Raisonné du Cabinet des Objets Curieux de feu M. de Bourlamaque, ... composé de Tableaux, Desseins, Estampes ... Terres Cuites ... Coquilles ... Pierres Fines ... et autres Objets. Par Pierre Remy ... Paris: Vente, 1770.

12°: iv, 86 p., one engraved plate.

RARE.

REFERENCES: CBN: 148, cols. 1024-33.

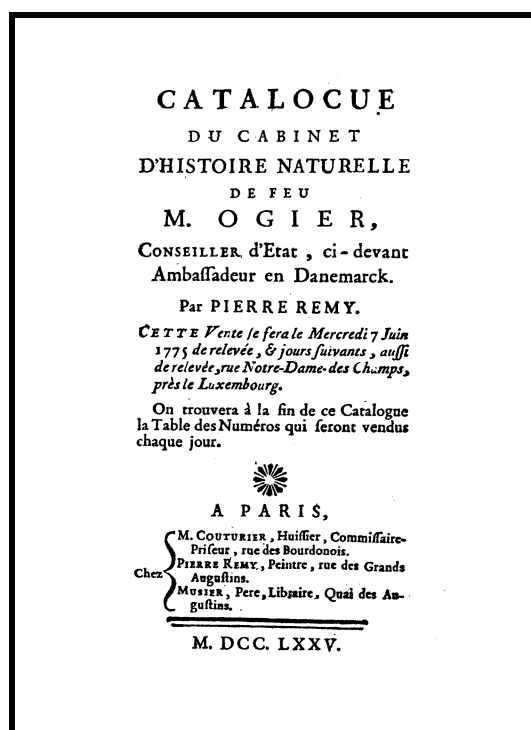
**4075. — French, 1773 [Sale catalog].**

Catalogue | D'Une Collection | De Minéraux, | Crystallisations, Pierres fines, Pierres | gravées, Agates arborisées & autres; | Coquilles univalves & bivalves, | Coraux, Madrépores, Papillons, | Oiseaux, Armes anciennes & | modernes, Morceaux curieux en | or & argent, & autres Objets | agréables & intéressants. | Par Remy. | Cette Vente ommencera le Jeudi 3 Juin | 1773, trois heures & demie précises de | relevée, & jours suivants, rue des Saintes | Peres, proche celle de Taranne. | [ornament] | A Paris, | Et chez Musier pere, Libraire, quai des | Augustins. | [double rule] | M. DCC. LXXXIII.

12°: 4, viii, 86 p., one engraved plate by Boucher.

RARE. Auction sale catalog describing the specimens contained in the collection of J. L. Robert de Lignerac, Duke de Caylus. The collection consisted of minerals, crystallizations, precious stones, agates, shells, stuffed birds, and ancient and modern weapons.

REFERENCES: BL: [1507/1564.]. • CBN: 148, cols. 1024-33.



CATALOGUE DU CABINET, 1775

**4076. — French, 1775 [Collection catalog].**

Catalogue [!] | Du Cabinet | D'Histoire Naturelle | De Feu | M. Ogier, | Conseiller d'Etat, ci-devant | Ambassadeur en Danemarck. | Par Pierre Remy. | Cette Vente se fera le Mercredi 7 Juin | 1775 de relevée, & jours suivants, aussi | de relevée, rue Notre-Dame- des Champs, | près le Luxembourg. | On trouvera à la fin de ce Catalogue | la Table des Numéros qui seront vendus | chaque jour. | [ornament] | A Paris, | [The next 6 lines braced on their left by "Chez {"}] M. Couturier, Huissier, Commissaire- | Priseur, rue des Bourdonnois. | Pierre Remy, Peintre, rue des Grands | Augustins. | Musier, Pere, Libraire, Quai des Au- | gustins. | [double rule] | M. DCC. LXXV.

8°: a<sup>2</sup> A-C<sup>6</sup>; 20ℓ.; [i]-iv, [1]-34, [2] p. PAGE SIZE: 185 x 100 mm. uncut.

CONTENTS: [i-ii], Title page, verso blank.; [iii]-iv, "Avertissement."; [1]-34, Text.; [2] pgs., "Indication | Des | Numéros | Qui seront vendus à chaque vacations."

## RETZIUS

RARE. Auction catalog describing M. Ogier's [see note below] natural history collections. The sale consisted of minerals (lots 1-184), zoological specimens (lots 185-269), and sculptures and other curiosities (lots 270-297). Though not large, the "Avertissement" describes the collection as particularly rich in important minerals, especially from Scandinavia.

**M. Ogier.** (BORN: ; DIED: ) *French diplomat.* Ogier was Conseiller d'Etat and onetime French ambassador to Denmark.

REFERENCES: Laissus, *Cabinets d'Histoire Naturelle*, 1964: 692. (**Ogier**) Laissus, *Cabinets d'Histoire Naturelle*, 1964: 692.

**RENOVANTZ, Hans Michael.** (BORN: Dresden, Germany, 21 July 1744; DIED: St. Petersburg, Russia, 9 September 1798) *German mining expert.*

Renovantz was chief of mining works in the Kolyvansk district, then inspector and instructor at the Mining Academy in St. Petersburg.

REFERENCES: Poggendorff: 2, col. 607.

**4077. — German, 1788** [First edition].

Mineralogisch = geographische | und andere vermischte | Nachrichten | von den | Altaischen Gebürgen | Russisch Kayserlichen Antheils | von | H.M. Renovanß, | [...5 lines of titles and memberships...] | [rule] Mit Kupfern. | [Rectangular vingette showing a scene.] | [ornate rule] Reval, 1788. | gedruckt mit Lindforsischen Schriften auf Kosten des Verfassers.

4°: xix, [1], 272, [2] p., large folding map (colored), 3 folding plates (partly colored).

VERY SCARCE. Recounts a journey to the Altai Mountains in south-west Siberia, where the rich mineral deposits are described.

REFERENCES: LKG: XIV 764. • NUC: [NR 0176893].

**4078. — Russian, 1792** [Russian transl.].

Минералогическия, геолрафическия и другия смешанныя извѣстия о Алтайскихъ горахъ, принадлежащихъ къ российскому владѣнию. Изданныя И.М. Ренованцомъ российско-императорскимъ колыванскимъ обер-бергмейстеромъ, инспекторомъ и горныхъ наукъ учителемъ при Имп. Горномъ училище въ Санктпетербургѣ ... Санктпетербургской имп. Академии наукъ копие-спойдентомъ и иенсиоиреромъ, Горнаго, Санктпетербургскаго Вольнаго эконоическаго общества и Берлинскаго испыка на российской приложениемъ иекоторыхъ примечаний перевелъ Василей Севергин, Имп. Академии наукъ адъюнктъ и Санктпетербургскаго Вольнаго эконоическаго общества членъ.

[TRANSLITERATED TITLE:]

Mineralogichetskiia, geolrafichetskiia i drugiia smeshannia nzvestiia o Altaiskikh gorakh, prinaldezhashchikh k rossiiskomu vladeiiu. Izdannia

I.M. Renovantsom rossiisko-imperatorskim kolyvanskim ober-bergmeisterom, inspektorom i gornykh nauk uchitelem pri Imp. Gornom uchilishche v Sanktpeterburge ... Sanktpeterburgskoi imp. Akademii nauk koppespoidentom i iensioierom, Gornago, Saiktpeterburgtskago Vol'nago ekonomicheskago obshchestva i Berlinskago ispyka na rossiiskoi prilozheniem iekotorykh primechaniï perevel Vasileï Severgin, Imp. Akademii nauk ad'unkt i Sanktpeterburgskago Vol'nago ekonomicheskago obshchestva chlen. St. Petersburg, Pri Imp. Akad. Nauk, 1792.

8°: [16], 504, xii p., 5 plates (signed J.C. Nabholz, sculpt.).

VERY RARE. Traslation by VASILII SEVERGIN of *Mineralogisch - geographische und andere vermachte Nachrichten* (Reval, 1788).

REFERENCES: LKG: XIV 765a. • Sopikov, *Essay in Russian Bibliography*, 1904-8: no. 6220. • *Svodnyi Katalog Russkoi Knigi*: no. 5929.

**RETZIUS, Anders Jahan.** (BORN: Christianstad, Sweden, 3 October 1742; DIED: Stockholm, Sweden, 6 October 1821) *Swedish chemist.*

From 1764, he was a chemical demonstrator at the University in Lund. In 1768 he left for Stockholm. While there he became a close friend and confidant of the great chemist, Carl Wilhelm Scheele [1742-1786]. He returned to Lund in 1772, however. In 1798, Retzius was appointed professor of chemistry in the Carolinan Institute in Stockholm. He assembled an important collection of minerals and rocks for the University of Lund. He published numerous articles and books on a number of subjects including chemistry, botany, zoology, mineralogy and paleontology. The botanical species "Retzia" is named after him.

REFERENCES: *Kongl. Svenska Vetenskaps Academiens Handlingar*: 1822, 462-7, biblio.. • Partington, *History of Chemistry*, 1961-70: 3, 200. • Poggendorff: 2, cols. 610-1 & 1438. • SBA: Scandinavian Biographical Archive: B-260, 117-134. • *Svenskt Biografiskt Lexikon*: 30, 1. • WBI.

**4079. — Latin, 1791** [Dissertation].

Specimen academicum de zeolithis svecicis, quod ... sub præsidio ... Andr. J. Retzii ... examini ... subjcit auctor Franciscus Henrik. Müller .. Lundæ, typis Berlingianis, [1791].

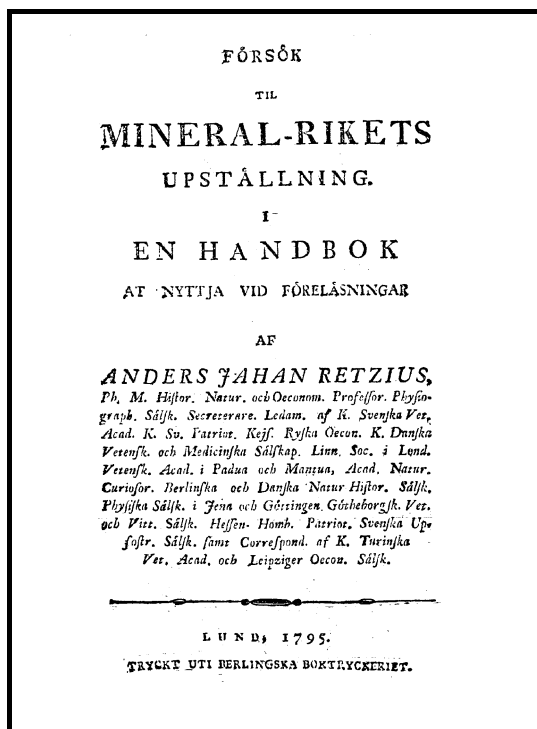
4°: 40 p.

RARE. Dissertation on something paleontological in Sweden. Respondent was Franz Heinrich Müller [1769-1794].

REFERENCES: *Beckmann P.Ö.B.*: 17, 270. • BL: [RB.23.a.10225]. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 170. • LKG: XVI 451.

**4080. — Swedish, 1795** [First edition].

Försök | Til | Mineral-Rikets | Upställning. | I | En Handbok | At Nyttja Vid Föreläsningar | Af | Anders Jahan Retzius, | [...10 lines of titles and memberships...] | [ornate rule] Lund, 1795, | Tryckt Uti Berlingska Boktryckeriet.



FÖRSÖK TIL MINERAL-RIKETS, 1795

8°:  $\pi^2$  A-X<sup>8</sup> Y<sup>2</sup>; 189 $\ell$ .; [4], [1]-374 p. PAGE SIZE: 180 x 115 mm. uncut.

CONTENTS: [2 pgs], Title page, verso quotation signed Linné.; [1 pg], Dedication to Carl Axel Wachtmeister.; [1 pg], Three lines of quotation signed Linné.; [1]-28, Introduction.; 29-35, "Mineralernes Indelning." [=synopsis of classification].; 36-358, Text.; [359]-374, "Bihang."

VERY SCARCE. In this handbook of mineral classification, Retzius' bases his scheme on that of AXEL FREDERICH CRONSTEDT first presented in *Försök til Mineralogie* (1st ed., Stockholm, 1758). The introduction discusses reason why minerals need to be classified and why Cronstedt's method is the best way. A synopsis of the overall classification is then presented followed by a more detailed descriptive mineralogy with the species arranged according to the system. An appendix at the end describes the latest discoveries of mineralogy.

REFERENCES: Ferchl: 440. • LKG: XII 143. • Roller & Goodman, *Catalogue*, 1976: 2, 354.

4081. German transl., 1798: Versuch einer Aufstellung des Mineralreichs von Andreas Johann Retzius. Ein Handbuch zum Gebrauche bei Vorlesungen von A.J. Retzius. Aus dem Schwedischen übersetzt von Carl Asmund Rudolphi. Leipzig, S.L. Crusius, 1798.

8°: iv, 376 p.

RARE. Translation by Carl Asmund Rudolphi [1771-1832] of *Försök til Mineral-Rikets Upställning* (Lund, 1795). REFERENCES: BL: [970.i.12.]. • LKG: XII 144a.

4082. Dissertation, 1796: D.D. | Dissertatio Gradualis | De | Methodo Optima | In | Mineralogia, | [rule] | Quam, | Venia Amplissimæ Facultatis Philosophicæ | sur Præsidio | D.M. Andr. J. Retzii, | [...6 lines of titles and

memberships...] | Publico Examini modeste Subjeit | Daniel Kullberg, | Gothoburgensis. | In Lycea Carolino die XXII Aprilis A MDCCXCVI. | [rule] | Lundæ, | Typis Berlingianis.

4°: A<sup>4</sup> b<sup>5</sup>; 9 $\ell$ .; [1]-17, [1] p.

CONTENTS: [1-2], Title page, verso blank.; 3-17, Text.; [1 pg], Blank.

VERY SCARCE. This dissertation describes the Retzius' views on a optimal classification methodology in mineralogy. It was presented by Daniel Kullberg as respondent.

REFERENCES: BL: [B.228.(1.)]. • Hoover Collection: no. 496. • LKG: XII 145b.

4083. Dissertation, 1799: Dissertatio gradualis sistens observationes nonnullas de lapide Obsidiano ... Londini Gothorum, Litteris Berlingianis, [1799].

4°: [2], 19 p.

VERY SCARCE. Dissertation on obsidian. Respondent, Johann Jakob Palm [1750-1825].

REFERENCES: Hoover Collection: no. 622. • LKG: XVI 363.

REUSS, Franz Ambros. (BORN: Prague, Czechoslovakia, 3 October 1761; DIED: Bilin, Bohemia, 9 September 1830) *Czech physician, mineralogist & geologist.*

Father of the physician and paleontologist August Emanuel von Reuss [1811-1873], Reuss was himself the son of a tailor. He attended the University of Prague, where he was educated in philosophy, natural science, and afterwards medicine. In 1783 he received his M.D., and established a practice in Prague. About this time, he became interested in the mineralogy and geology of Bohemia, going to Freiberg attend Werner's lectures at the Bergakademie. In 1784, Reuss became the personal physician to the mineral collector Prince Lobkowitz at Bilin in Bohemia. He established his home in this city and except for field investigations remained in the city for the rest of his life. As part of his duties for the Prince, he supervised the exploitation of the famous mineral springs at Bilin. He conducted many experiments on its waters comparing them to other health waters and published several works on the subject, thus becoming a recognized expert in balneology.

REFERENCES: ADB: 28, 307-8. • Callisen, *Medicinisches Schriftsteller-Lexicon*, 1830-45: 16, 3-7 & 31, 421. • DBA: I 1026, 9-20; II 1065, 201-205. • DSB: 11, 387-8 [by H. Tobien]. • Hamberger & Meusel, *Gelehrte Teutschland*, 1796-1834. • Hirsch, *Biographisches Lexikon*, 1884-8: 4, 716. • Kettner, Radim., "Franz Ambros Reuss (1761, +1830)," *Casopis pro Mineralogii a Geologii*, 6 (1961), pt. 1, 124-6, portrait. • Krutský, N., "Obnovení pomníku F.A. Reusse a A.E. Reusse v Bilině," *Casopis pro Mineralogii a Geologii*, 11 (1966), no. 2, 217-8, illus. • Lambrecht & Quenstedt, *Catalogus*, 1938: 358. • Pemsel, F., *Dr. Franz Ambros Reuss (1761-1830). Zu seinem 100. Todestage am 9. Sept. 1930. Eine Skizze seines Lebens und Schaffens*. Berlin, Museums-gesellschaft, 1930. 20 p. [BL: 010705.i.49]. • Poggendorff: 2, cols. 613-4. • Prantl, F., "Účast F.A. Reusse na geol. výzkumv českých lázní," *Věda Přírodní*, Prague, 15 (1934), 282-3. • Sarjeant, *Geologists*, 1980: 3, 1970. • Suchý, K., "Franz Ambros Reuss [1761-1830], analytik Českých minerálních vod," *Dějiny Věd a Techniky*, 9 (1976), 30-41. [Reuss and his analysis of Czechoslovakian mineral waters.]. • WBI. • Weitenweber, W.R., "Biographische Skizzen böhmischer Naturforscher, 12. Franz Ambros Reuss," *Lotos*, Prague, *Jahrgang* 4 (1854), 135-40. • Wrany, *Pflege der Mineralogie in Böhmen*, 1898: 63. • Wurzbach, *Biographisches Lexikon Österreich*, 1856-91: 25, 354-6.

4084. — German, 1790.

Orographie des Nordwestlichen Mittelgebirges in Böhmen. Ein Beitrag zur Beantwortung der Frage:

## REUSS

ist der Basalt vulkanisch oder nicht? Von Franz Ambros Reuss. Dresden, Walther, 1790.

8°: [1]-180 p., [2] folded leaves of plates.

VERY SCARCE. Considers the volcanic origin of basalt, and suggests that careful observation will point to its correct aqueous formation.

REFERENCES: *Allgemeine Deutsche Bibliothek*: 102, no. 1, 145 & 112, no. 2, 449. • *Allgemeine Literatur-Zeitung*: Jan., 1792, p. 89. • *Beckmann P.O.B.*: 16, 484. • BL: [970.c.8. & B.405.(3.)]. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 70. • LKG: XIV 78.

### 4085. — German, 1791-9 [Periodical].

Sammlung physikalischer Aufsätze besonders die böhmische Naturgeschichte betreffend, von einer Gesellschaft böhmischer Naturforscher; herausgegeben von J. Mayer. (Th. 5, fortgesetzt von F. A. Reuss.) Dresden, 1791-9.

8°:

VERY SCARCE. MAYER. Johann. M.D., of Prague  
Additional headings: REUSS. Franz Ambros

REFERENCES: BL: [P.P.1991. & 958.h.18-22.]. • LKG: XIV 83e.

### 4086. — German, 1793-7.

Mineralogische | Geographie | Von | Böhmen, | Von | Franz Ambrosius Reuss, | [...2 lines of titles and memberships...] | Erster Band. | [vignette] | Mit einer petrographischen Charte und Kupfern. | [tapered rule] | Dresden, 1793. | In Der Waltherischen Hofbuchhandlung.

2 vols. [VOL 1: 1793] 8°: [14], 6, xxxiv, 406 p.; [VOL 2: 1797] 8°: [22], 40, 498, [4] p., one engraved plate, 3 engravings in the text, and one folding engraved petrographic map of the region of Bohemia. Each volume has a second titlepage, reading: *Band I. Mineralogische Beschreibung des Bunzlauer Kreises in Böhmen* and *Band II. Mineralogische Beschreibung des Leitmeritzer Kreises in Böhmen*.

RARE. All published† Only two volumes of the “Mineralogische Beschreibung von Böhmen” ever appeared. It is an rare work providing in volume two a mineralogical description of the “Bunzlauer” district of Bohemia. This region, located north of Prague, comprising the Jeschkengebirge and Isergebirge, produced with the exception of salt, almost every other useful mineral known. At the end of volume two are additions to the first volume, covering the Leitmeritz district.

REFERENCES: *Beckmann P.O.B.*: 18 (1793), 399-400. • BL: [457.c.25-26.]. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 71 [“Sehr vollständig und lehrreich.”]. • *Göttingische gelehrte Anzeigen*: May, 1797, 705. • LKG: XIV 81c. • *Neue Allgemeine deutsche Bibliothek*: 22, no. 1, 255. • Petzholdt, *Bibliotheca Bibliographica*, 1866: p. 567.

### 4087. — German, 1794.

Chemisch-medizinische Beschreibung des Kaiser Franzenbades oder des Egerbrunnens, nebst einer Litteraturgeschichte dieser Quelle und historischen, statistischen und geognostischen Bemerkungen des

Egerischen Bezirks. (Anhang zu der Beschreibung des Kaiser Franzenbades enthaltend eine Anleitung zum Gebrauche desselben.) Prag und Dresden, Waltherische Hofbuchhandlung, 1794.

8°: [i]-xvi, [1]-212, [4] p., one engraved title vignette, 2 engraved text vignettes and one folded engraved map, one folded tab. VERY SCARCE.

REFERENCES: BL: [990.b.22.]. • LKG: XIV 79a.

### 4088. — German, 1796.

Sammlung | Naturhistorischer | Aufsätze | Mit Vorzüglicher Hinsicht Auf Die Mineral- | Geschichte Böhmens. | Von | Franz Ambros Reuss, | [...6 lines of titles and memberships...] | [vignette] | Prag, | Bey Caspar Widtmann, 1796.

8°:  $\pi^8$  A-Bb<sup>8</sup>; 208 $\ell$ .; [16], [1]-398, [2] p. PAGE SIZE: 180 x 104 mm.

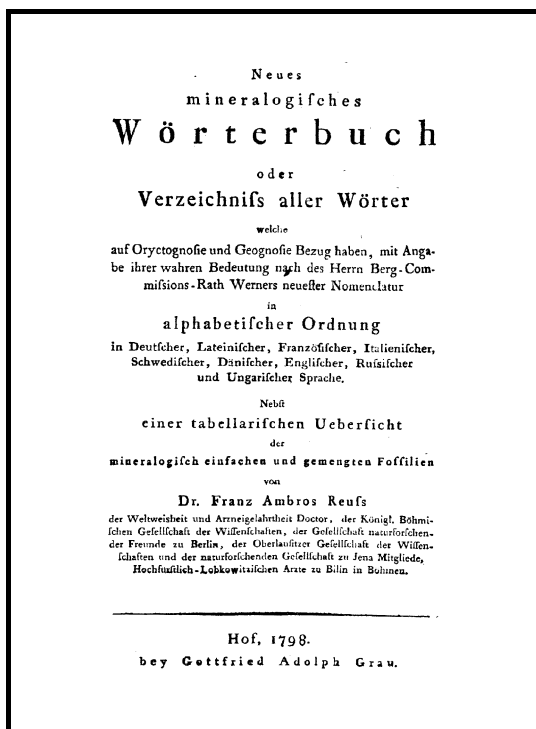
CONTENTS: [2 pgs], Title page, verso blank.; [10 pgs], Dedication, signed Franz Ambros Reuss.; [4 pgs], “Vorrede”—dated 3 March 1796.; [1], Sectional title page, “I. | Uiber einen | Basalt | von | pyramidenförmig abgesonderten Stücken | aus | Böhmen.”; [2], Blank.; [3]-46, Text.; [47], Sectional title page, “II. | Geognostische | Bemerkungen | auf einer | Reise durch einen Theil | des | Pilsner Kreises | im Jahre 1794.”; [48], Blank.; [49]-170, Text.; [171], Sectional title page, “III. | Von dem | Uibergange | des | Porphyrschiefers | in den | Hornsteinporphyr, | und einigen neuen Mittelgattungen zwi- | schen dem Basalte und ersterem.”; [172], Blank.; [173]-204, Text.; [205], Sectional title page, “IV. | Vermischte mineralogische | Bemerkungen.”; [206], Blank.; [207]-254, Text.; [255], Sectional title page, “V. | Beschreibung | des | Lichtenwaldsteiner | Basaltberges | in | böhmischen Erzgebirge.”; [256], Blank.; [257]-270, Text.; [271], Sectional title page, “VI. | Geognostisches Vorkommen, | und äussere | Charakteristik des Agites, | ...”; [272], Blank.; [273]-320, Text.; [321], Sectional title page, “VII. | Einige | Bemerkungen | über den | Porphyr, | ...”; [322], Blank.; [323]-398, Text.; [2 pgs], “Inhalt.”

VERY SCARCE. Reuss’ essays on the mineralogy, petrology and geology of Bohemia, emphasizing basalt formations. He was an ardent supporter of Werner’s Neptunian theories concerning the aqueous origin of basalt, and in this work he provides support for the theory. His research is today considered the first comprehensive work on the Tertiary sediments and volcanics of northern Bohemia, together with their pre-Tertiary formations.

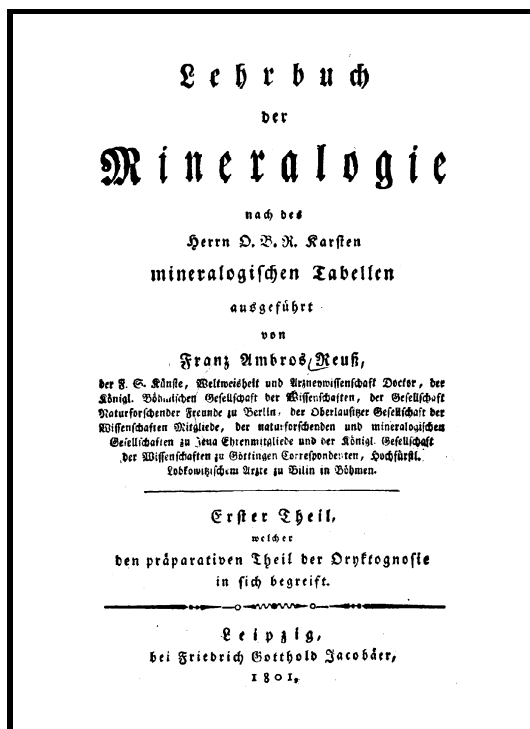
REFERENCES: BL: [954.a.31.]. • LKG: XIV 80b. • NUC: [no copy listed].

### 4089. — German, 1798.

Neues | mineralogisches | Wörterbuch | oder | Verzeichniss aller Wörter | welche | auf Oryktognosie und Geognosie Bezug haben, mit Anga- | be ihrer wahren Bedeutung nach des Herrn Berg-Com- | missions-Rath Werners neuester Nomenclatur | in | alphabetischer Ordnung | in Deutscher, Lateinischer, Französischer, Italienischer, | Schwedischer, Danischer, Englischer, Russischer | und Ungarischer Sprache. | Nebst | einer tabellarischen Uebersicht | der | mineralogisch einfachen und



WÖRTERBUCH, 1798



LEHRBUCH DER MINERALOGIE, 1801

gemengten Fossilien | von | Dr. Franz Ambros Reuss | [...5 lines of titles and memberships...] | [tapered rule] | Hof, 1798. | bey Gottfried Adolph Grau.

8°:  $\pi^8$  A-Hh<sup>8</sup> Ii<sup>4</sup>; 260 $\ell$ .; [16], [1]-503, [1] p. Added title pages in Latin and French. PAGE SIZE: 216 x 130 mm. uncut.

CONTENTS: [2 pgs], Blank, verso German title page; [2 pgs], Latin title page, verso blank.; [2 pgs], French title page, verso blank.; [4 pgs], Dedication to Adalbert Grafen von Czernin, signed Franz Ambrosius Reuss.; [6 pgs], "Vorrede."—dated 10 January 1798.; [1]-14, References.; 15-166, "Tabellarischen Uibersicht | der mineralogischen einfachen Fossilien.—nach Werner."; 167-503, Text of dictionary.; [1 pg], Blank.

VERY SCARCE. An early comprehensive polyglot mineralogical dictionary providing definitions in German, Latin, French, Italian, Swedish, Danish, English, Russian and Hungarian. The text shows the author's comprehensive knowledge of the mineralogical science of his time.

REFERENCES: BL: [1333.d.30.]. • *Freilich Sale Catalog*: no. 455. • LKG: VII 4. • NUC.

#### 4090. — German, 1799.

Mineralogische Beschreibung der Mersschaften Unterbrzezan, Kamenitz und Manderscheid im Kaurzimer Kreise. Nebst einer Geschichte des ehemaligen und itzigen Betriebes des uralten Goldbergwerks zu Eule. Hof, Bey Gottfried Adolph Grau, 1799.

8°: [1]-222 p., frontispiece. VERY SCARCE.

REFERENCES: BL: [B.381.(1.)]. • LKG: XIV 82d.

#### 4091. — German, 1801-6.

Lehrbuch | Der | Mineralogie | nach des | Herrn O.B.R. Karsten | mineralogischen Tabellen | ausgeführt | von | Franz Ambros Reuss, | [...7 lines of titles and memberships...] | [rule] | Erster Theil, | welcher | den präparativen Theil der Oryktognosie | in sich begreift. | [ornate rule] | Leipzig, | bei Friedrich Gotthold Jacobäer, | 1801 [-1806].

8 vols. [VOL 1: 1801] 8°:  $\pi^5$  A-P<sup>8</sup> Q<sup>3</sup> R<sup>3</sup>; 131 $\ell$ .; [10], [1]-252 p. [VOL 2: 1801] 8°:  $\pi^1$  A-Ee<sup>8</sup> Ff<sup>7</sup> Gg<sup>2</sup>; 234 $\ell$ .; [2], [1]-466 p. [VOL 3: 1802] 8°:  $\pi^1$  A-Mm<sup>8</sup> Nn<sup>7</sup> Oo<sup>2</sup>; 290 $\ell$ .; [2], [1]-578 p. [VOL 4: 1803] 8°:  $\pi^4$  A-Uu<sup>8</sup> Xx<sup>4</sup> Yy<sup>2</sup>; 354 $\ell$ .; [i]-viii, [1]-699, [1] p. [VOL 5: 1803] 8°:  $\pi^8$   $\pi^2$  A-Zz<sup>8</sup> Aaa<sup>6</sup>; 384 $\ell$ .; [i]-xx, [1]-747, [1] p. [VOL 6: 1805] 8°:  $\pi^3$   $\pi^2$  A-Hh<sup>8</sup> Ii<sup>5</sup>; 259 $\ell$ .; [6], [I]-IV, [1]-506 p. [VOL 7: 1805] 8°:  $\pi^3$  A-Eee<sup>8</sup> Fff<sup>4</sup>  $\chi^1$  a-c<sup>8</sup> d<sup>7</sup>; [6], [1]-822, [2], [2], [1]-61, [1] p. [VOL 8: 1806] 8°:  $\pi^2$  A-Qq<sup>8</sup> Rr-Ss<sup>6</sup> Tt<sup>4</sup>; 332 $\ell$ .; [4], [1]-659, [1] p. PAGE SIZE: 200 x 120 mm.

CONTENTS: [Vol 1] [2 pgs], Title page, verso blank.; [8 pgs], "Vorrede."; [1]-[14], "Einleitung."; [15], Sectional title page, "I. Theil | oder | Präparativer Theil der Oryktognosie."; [16], Blank.; [17]-252, Text.

[Vol 2] [2 pgs], Title page, verso blank.; [1], Sectional title page, "Oryktognosie | Erster Theil."; [2], Blank.; [3]-466, Text.

[Vol 3] [2 pgs], Title page, verso blank.; [1]-578, Text.

[Vol 4] [i-ii], Title page, verso blank.; [iii]-viii, "Tabellarische Uebersicht."; [1]-689, Text.; 690-699,



## REYNAUD

“Zusätze und Verbesserungen | zum dritten Bande der Oryktognosie.”; [1 pg], Blank.

[Vol 5] [i-ii], Title page, verso blank.; [iii]-[viii], Dedication.; [ix]-xii, “Vorrede.”; [xiii]-xx, “Tabellarische Uebersicht.”; [1]-638, Text.; [639]-738, “Zusätze.”; 739-747, “Druckfehler.”; [1 pg], Publisher’s list.

[Vol 6] [2 pgs], Blank, verso series title page, “Lehrbuch | der | Geognosie | ...”; [2 pgs], Title page, verso blank.; [1 pg], Dedication.; [1 pg], Blank.; [I]-IV, “Vorrede.”; [1]-506, Text.

[Vol 7] [2 pgs], Blank, verso series title page, “Lehrbuch | der | Geognosie | ...”; [2 pgs], Title page, verso blank.; [1 pg], Dedication.; [1 pg], Blank.; [1]-822, Text.; [2 pgs], Publisher’s list.; [1 pg], Sectional title page, “Anhang | einiger | Zusätze und Verbesserungen zur Geognosie | des 1sten und 2ten Bandes.”; [1 pg], Blank.; [1]-61, Text.; [1 pg], Blank.

[Vol 8] Title page, verso blank.; [2 pgs], “Vorrede” — dated 16 June 1806.; [1]-589, “Zusätze und Abänderungen | zu den ersten Bande der Oryktognosie.”; [590]-659, “Register | über das ganz Werk.”; [1 pg], “Druckfehler.”

VERY SCARCE. Although the title page indicates this voluminous work is based on D.L.G. Karsten’s *Mineralogische Tabellen* (1st ed., Berlin, 1800), it is also in fact one of the greatest articulations of Werner’s mineralogical and geological theories. The first volume presents an introduction to mineralogical science, including discussions of mineral nomenclature, the physical and chemical properties, etc. The next four volumes provide a highly detailed descriptive mineralogy, with each species listed having all the known information provided. The next two volumes of the set are concerned with Geognosy, or geology in general, while the final volume contains the corrections and an index to the entire work. A remarkable work, and one of the fullest explanations of Werner’s theories ever to appear.

REFERENCES: BL: [741.aa.1. & 953.c.12-14.]. • Dana’s 7th (Bibliography): 79. • *Freilich Sale Catalog*: no. 456. • LKG: XII 155. • NUC. • Zittel, *Geschichte der Geologie*, 1899: pp. 142-3.

### 4092. — German, 1801.

Mineralogische und bergmännische | Bemerkungen | über | Böhmen. | Von | Franz Ambros Reuss, | [...8 lines of titles and memberships...] | [vignette] | [rule] | Mit einer Ansicht des Schlosses Rothenhans im Saatzter Kreise. | [tapered rule] | Berlin, 1801. | Bei Christian Friedrich Himbürg.

8°: [i]-xii, [1]-804 p., aquaint frontispiece (showing the castle of Rothenhaus), engraved title vignette. PAGE SIZE: 202 x 115 mm.

CONTENTS: [i-ii], Title page, verso blank.; [iii], Dedication to Heinrich von Rottenhan.; [iv], Blank.; [v]-[vi], Text of dedication, signed Franz Ambros Reuss.; [vii]-xii, “Vorbericht.”; [1]-804, Text.

VERY SCARCE. Description of the mineralogical wonders and mining of the area around Bilin and Carlsbad, on the Mittelgebirge of Northwest Bohemia, and of the surrounding regions of Leitmeritz, Bunzlau and Kaurzim.

REFERENCES: BL: [987.i.25.]. • LKG: XIV 84f. • NUC.

**REYMANN, Franz.** *Austrian jeweller.*

### 4093. — German, 1784 [Sale catalog].

Verzeichniss des Naturalienkabinetts, welches sich bei Herrn Franz Reymann in Wien befindet. Wien, 1784.

8°. 133 p.

EXTREMELY RARE. Probably an auction sale catalog of Reymann’s natural history cabinet, which apparently contained some minerals. No copy of this title has been traced.

REFERENCES: Dryander, *Catalogus Banks*, 1796-1800: 4, p. 27. • LKG: XV 36.

### REYNAUD, Jean Ernest. (BORN: Lyon, France, 4 February 1806; DIED: Paris, France, 28 June 1863) *French mining expert & philosopher.*

Reynaud graduated from the Polytechnic School in 1827 and entered the School of the Mines. While a student there he made a long trip from May to November 1829, through the Harz Mountains, the Black Forest, Saxony, Hannover, Oldenbourg, Westphalia, Belgium and the Netherlands. He graduated in 1830. He became an engineer in Corsica. During the revolution of 1830 he was for a time imprisoned. Afterwards he became a member of the Saint-Simonian community and in his *Terre et Ciel* (1854), Reynaud set out a religious system based on the transmigration of souls which he believed was reconcilable both with Christianity and pluralism. Reynaud was also a co-founder of the *Encyclopédie Nouvelle*.

REFERENCES: Internet search. • Poggendorff: 2, col. 618.

### 4094. — French, 1836 [First edition].

Minéralogie des Gens du Monde; ou, Notions Générales sur les Minéraux les plus Utiles à la Société, par M.R \*\*\*. Paris, Moutardier, 1836.

12°: [4], 421, [1] p.

VERY RARE. Original edition of this small treatise written by the author during his imprisonment at the beginning of the reign of Louis XVIII, when he had been subjected to a forced leisure. Cast in a popular style handbook the text treats the principal economic minerals used by society including stones, earths, fuels, ores and mineral water.

REFERENCES: Barbier: 3, p. 303. • NUC: [NR 0214950]. • Quérard, *France Littéraire*, 1964: 6, p. 169.

### 4095. — French, 1842 [First edition].

Histoire Élémentaire des Minéraux Usuels, par Jean Reynaud. Paris, Passard, 1842.

12°: [4], 421 p.

VERY RARE. First appearance of the book under its more utilitarian and well known title. Based on pagination it appears to be a reissue of the *Minéralogie des Gens du Monde, ou, Notions Générales sur les Minéraux les plus Utiles à la Société* of 1836.

REFERENCES: NUC.

**4096. 2nd edition, 1867:** Bibliothèque Des Merveilles | [rule] | Histoire Élémentaire | Des | Minéraux | Usuels | Par | Jean Reynaud | [...5 lines of quotation, signed Pline...] | [short rule] | Deuxième Édition | Illustrée De 2 Planches De Minéraux Usuels | [short rule] | Paris | Librairie De L. Hachette Et Cie | Boulevard Saint-Germain, N° 77 | [short rule] | 1867 | Droits de propriété et de traduction réservés.

12°: [4], [i]-iii, [1], [1]-311 p., hand-colored frontispiece, 2 plates (one colored). Frontispiece and plates accompanied by guard sheet with descriptive letterpress. PAGE SIZE: 178 x 104 mm.

CONTENTS: [2 pgs], Half title page, "... Histoire Élémentaire | Des | Minéraux | Usuels," verso "Paris. — Imp. Simon Baçon Et Comp., Rue D'Erfurth, 1."; [Frontispiece accompanied by a guard sheet with descriptive letterpress.]; [2 pgs], Title page, verso blank.; [i]-iii, "Avant-Propos."; [1 pg], Blank.; [1]-303, Text.; [304], Blank.; [305]-307, "Table Des Matières."; [308], Blank.; [309]-311, "Table Alphabétique."; [1 pg], Blank.

SCARCE. This apparently popular work in France intended to describe the economic minerals and containing two hand-colored plates of minerals specimens and crystals. The text was a reedited from the *Minéralogie des Gens du Monde, ou, Notions Générales sur les Minéraux les plus Utiles à la Société* (1836 and 1842). Its authority in France is shown by the multiple editions (apparently being only reissues) that appeared over many years. It is written for the beginning student of mineralogy with its text covering stones, earths, fuels, mineral waters, precious stones. The two colored plates are of mediocre quality.

REFERENCES: NUC: [NR 0214946].

**4097. 4th edition, 1869:** Bibliothèque Des Merveilles | [rule] | Histoire Élémentaire | des | Minéraux | Usuels, | Par | Jean Reynaud | [...5 lines of quotation signed Pline...] | Quatrième Édition | Illustrée | De Deux Planches En Couleur Et D'Une Planche En Noir | [rule] | Paris | Librairie De L. Hachette Et Cie | Boulevard Saint-Germain, N° 77 | [rule] | 1869 | Droits de propriété de traduction réservés.

8°: [4], [i]-iii, [1], [1]-291, [1] p., hand-colored frontispiece. 2 plates (one colored). Frontispiece and plates accompanied by guard sheet with descriptive letterpress. PAGE SIZE: 172 x 110 mm.

CONTENTS: [2 pgs], Half title page, "Bibliothèque | Des Merveilles | Publiée Sous La Direction | De M. Édouard Charton | [rule] | Histoire Élémentaire | Des | Minéraux | Usuels," verso "Paris.—Imp. Simon Baçon Et Comp., Rue D'Erfurth, 1."; [Frontispiece.]; [2 pgs], Title page, verso blank.; [i]-III, "Avant-Propos."; [1 pg], Blank.; [1]-283, Text.; [284], Blank.; [285]-287, "Table Des Matières."; [288], Blank.; [289]-291, "Table Alphabétique."; [1 pg], Blank.

SCARCE. A reprinting of the previous edition with the text reworked to fit onto fewer pages.

REFERENCES: CBN: 150, col. ??.

**4098. 5th edition, 1873:** Histoire Élémentaire des Minéraux Usuels, par Jean Reynaud. Paris, L. Hachette et Cie, 1873.

12°: [4], iii, [2], 291, [1] p., chromolithographic frontispiece, 2 plates (one colored). VERY SCARCE.

REFERENCES: CBN: 150, col. ??.

**4099. 6th edition, 1881:** Histoire Élémentaire des Minéraux Usuels, par Jean Reynaud. Paris, L. Hachette et Cie, 1881.

12°: [4], iii, 291 p., chromolithographic frontispiece, 2 plates (one colored).

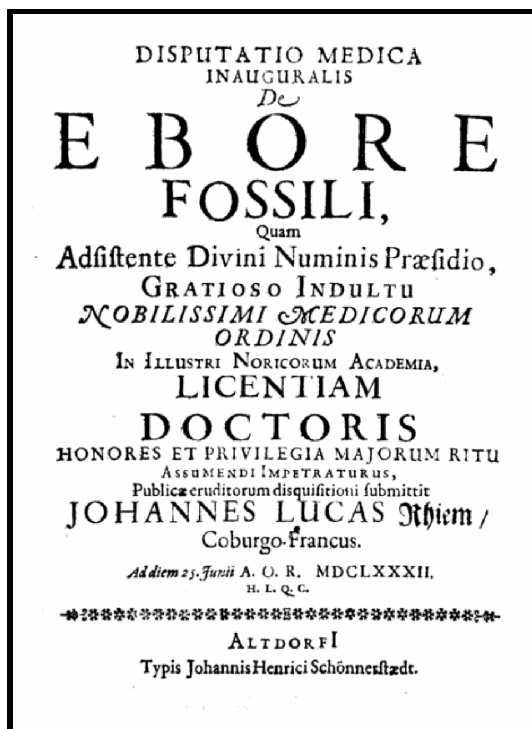
SCARCE. Series title also at head of t.p. Frontispiece and plates accompanied by guard sheet with descriptive letterpress.

REFERENCES: CBN: 150, col. ??.

#### RHIEM, Johann Lukas.

**4100. — Latin, 1682** [Dissertation].

Disputatio Medica | Inauguralis | De | Ebores | Fossili, | Quam | Adsisistente Divini Numinis Præsidio, | Gratioso Indultu | Nobilissimi Medicorum | Ordinis | In Illustri Noricorum Academia, | Licentiam | Doctoris | Honores Et Privilegia Majorum Ritu | Assumendi



DE EBORE FOSSILI, 1682

Impetraturus, | Publicæ eruditorum disquisitioni submittit | Johannes Lucas Rhiem/ | Coburgo-Francus. | Ad diem 25. Junii A.O.R. MDCLXXXII. | H.L.Q.C. | [ornate rule] | Altdorfi | Typis Johannis Henrici Schönnerstædt.

4°: 14l.

VERY RARE. In this dissertation, submitted on June 25, 1682 at the University of Altdorf, the nature and properties of fossilized wood are discussed and speculation is made as to how it is formed.

REFERENCES: BL: [458.a.16.]. • LKG: XVII 69. • VD17: 12:182749B.

**RICHARD, Alphonse-Frédéric de.** *French civil engineer.*

**4101. — French, 1897.**

Richesses Minérales | De La | Roumanie | Pétrole, Eaux Minérales etc. | [rule] | Nouvelle Edition | [rule] | Par | A. de Richard | [...one line of titles...] | [ornate rule] | Bucarest | Imprimerie De La Cour Royale, F. Göbl Fils | Editeurs-Imprimeurs | 19, Rue Royale, 19 | 1897.

8°: [2], [i]-iv, [1]-423, [1] p.

CONTENTS: [2 pgs], Title page, verso "Tous droits réservés."; [i]-[iv], "Table Des Matières."; [v]-vi, "Exposé."; [1]-422, Text.; [423], "Errata."; [1 pg], Blank.

VERY SCARCE. A topographical survey of the mineral riches of Romania. The text covers all aspects of the mineral resources of the region including building

## RICHARDS

and ornamental stone, coal, petroleum, mineral waters, gold, silver, copper, iron, lead, etc. The descriptions include incidental information on the history of the resource in Romania.

REFERENCES: NUC. • NYPL Catalog. • USGS Library Catalog.

### 4102. — French, 1906.

Richesses Minérales de l'Ariège, l'or en France, en Roumanie, au Transvaal et dans le Monde Entier. Par A. de Richard, ... Foix, Impr. de Gadrat Aîné, 1906.

16°: viii, 279 p.

RARE. Topographical mineralogy describing the mineral wealth of Romania and the Transvaal.

REFERENCES: Spencer, *Catalogue of Topographical Mineralogies*, 1948: p. 315.

**RICHARDS, Ellen Henrietta Swallow.** (BORN: 1842; DIED: 1911) *American chemist & educator.*

REFERENCES: ABA: I 1352, 69-76; 1353, 112-113; II 506, 380. • Adams, *Dictionary of American Authors*, 1904. • Appleton *Cyclopedia of American Biography*. • Herringshaw's *National Library of American Biography*. • National *Cyclopedia of American Biography*. • WBI. • Who Was Who in America: 1, ??.

### 4103. — English, 1882 [First edition?].

First Lessons in Minerals by Ellen Henrietta Richards. Boston, Press of Rockwell and Churchill, 1882.

8°: 32 p. Includes bibliographical references.

RARE.

REFERENCES: NUC.

**4104. Another edition, 1896:** Boston Society of Natural History. | [ornate rule] | Guides For Science Teaching. | No. XIII. | First Lessons on Minerals. | By Ellen H. Richards. | Boston, U.S.A.: | D.C. Heath & Company. | 1896.

8°: [1]-48 p. Printed wraps. PAGE SIZE: 152 x 115 mm.

CONTENTS: [1], Front cover: Title repeated on the cover inside a single rule box.; [2], Inside front cover: Preface, signed Alpheus Hyatt, curator.; [3], Title page.; [4], "Copyright, | By the Boston Society of Natural History. | 1884."; [5]-10, "Introduction."; [11]-46, Text.; [47-48], Blanks.; Inside back cover: Blank.; Back cover: "Guides for Science Teaching."

VERY SCARCE. Apparently useful for small children this beginner's guide is an introduction to minerals and is somewhat unusual having been authored by a noted woman chemist! The text covers the simple substances of minerals including the metals, sulfur, carbon, oxides, sulfides, chlorides, carbonates, and silicates.

"The outline of the lessons was first worked out by Mrs. Richards with three successive classes of children, from six to eight years old, just out of kindergarten. ... An additional reason for including the First Lessons in Minerals in the series of Science Guides is found in the fact that it forms a valuable introduction to Science Guide No. XII., on 'Common Minerals and Rocks' by Prof. Crosby." — *Preface*

REFERENCES: NUC.

**4105. Another edition, 1902:** First Lessons in Minerals by Ellen Henrietta Richards. Boston, D.C. Heath & Co., 1902.

8°: 32 p. VERY SCARCE.

REFERENCES: NUC.

**4106. 1908:** ... First lessons on minerals. By Ellen H. Richards. Boston, D.C. Heath & company, 1908.

8°: 46, [2] p. At head of title: Boston Society of Natural History. VERY SCARCE.

REFERENCES: NUC.

## RICHARDS, Ralph Webster.

### 4107. — English, 1907.

Synopsis of Mineral Characters, Alphabetically Arranged for Laboratory and Field Use, by Ralph W. Richards ... New York, J. Wiley & Sons, 1907.

8°: v, 99 p., diagrams. VERY SCARCE.

REFERENCES: NUC. • USGS Library Catalog.

**RICHTER, Carl Friedrich.** (BORN: Freiberg, Germany, 16 August 1775; DIED: Halsbrücke, Germany, 6 August 1828) *German geologist & metallurgist.*

Richter became master of the iron works at Halsbrücke and authored several books in geology and mining procedures.

REFERENCES: Hamberger & Meusel, *Gelehrte Teutschland*, 1796-1834. • Poggendorff: 2, col. 637.

### 4108. — German, 1805 [First edition].

Neuestes Berg- und Huttenlexikon oder alphabetischer Erklärung aller beim Berg- und Hüttenwesen vorkommenden Arbeiten, Werkzeuge und Kunstwörter; aus den vorzüglichsten mineralogischen und Hüttenmanischen Schriften gesammelt und aufgestellt von C.F. Richter. Leipzig, 1805.

2 vols. [VOL 1] 8°: [2], [i]-viii, [2], [1]-704 p. [VOL 2] 8°: [4], [1]-690 p.

RARE. A valuable dictionary of terms used in mining, metallurgy and smelting. Over 10,000 words are defined in great detail including many pertaining to mineralogy.

REFERENCES: Hoover Collection: no. 685. • LKG: VIII 16. • NUC: [no copy listed].

**4109. 2nd edition, 1806:** Neuestes | Berg= und Hütten=Lexikon, | oder | alphabetische Erklärung | aller | bei dem Berg= und Hüttenwesen vorkommenden Arbeiten, | Werkzeuge und Kunstwörter; | aus den vorzüglichsten | mineralogischen und hüttenmännischen Schriften | gesammelt und aufgestellt | von | C.F. Richter, | Kurfürstl. Sächs. Nachthüttenmeister bei der Halsbrüchner Hütte. | [tapered rule] | Erster Band. | A bis L. | Neueste Auflage. | [tapered rule] | Leipzig, | 1806.

2 vols. [VOL 1] 8°: vi, 618 p. [VOL 2] 8°: 607 p.

RARE. A new edition apparently with little alteration to the original text except that it has been completely reset.

REFERENCES: NUC: [no copy listed].

**RICHTER, Christian.** (BORN: 1656; DIED: Scheenberg, Germany?, 3 March 1738) *German mining expert.*

Little is known of Richter other than he was the 'Edelgestein Inspector' (precious stone inspector) at Schneeberg. He is a self-described 65-year old mining expert and inspector of precious stones by appointment to the Elector of Saxony.

REFERENCES: DBA: I 1031, 208-209. • Fischer, *Mineralogie in Sachsen*, 1939: pp. 231-2. • WBI.



MIRACVLOSA TERRA, 1732

**4110. — German, 1732.**

Saxoniae Electo- | ralis | Miracvlosa | Terra, | oder  
 | Des Weltberühmten Chur=Sachsen= | Landes  
 bewunderns=würdige | Erde, | Wie dieselbe |  
 Durch des Höchsten Gottes sonderbahre Gna=  
 | de und verliehenen Bergwercks=Verstand, auch  
 un= | ermüdeten Fleiß entdeckt worden | Von  
 | Christian Richtern, | Thro Königl. Majestät in  
 Pohlen und Chur= | fürstl. Durchl. zu Sachsen  
 gestallten Edelgestein Inspecto= | re, und E.E.  
 Rathes der Berg=Stadt Schnee= | berg Assessore. |  
 [rule] | Schneeberg, auf Kosten des Aurtoris. | [rule]  
 | Gedruckt bey Joh. Ernst Schulzen, 1732.

4°:  $\pi^2$  : (4) ( ) (2) A-Q<sup>4</sup> R<sup>2</sup>; 74l.; no pagination or foliation, 61 text engravings. PAGE SIZE: 196 x 156 mm.

VERY RARE. Published at the expense of the author and dedicated to the King August II of Poland, this work is in rare instances among the earliest mineralogical books to contain colored illustrations. The volume describes and illustrates mineral and rock specimens from the mining region of Saxony. In particular, Richter describes samples of "Wundererde," which is a colorful variety of jasper found near Zwickau and used for ornamental purposes. The 61 exquisite text engravings show in the form of cross-sections examples of this jasper and various ores with embedded minerals, which are carefully labeled with letters and

referenced to the descriptive text. In some copies of this work the illustrations have been carefully hand-colored in watercolors and gouache to create beautiful depictions. Wagner (1902), who believes the illustrations to be a fantasy of the artist, records that the originals to the 61 illustrations were held in the collections of the Mineralogische-Geologische Museum in Dresden at the beginning of the 20th century.

REFERENCES: Fischer, *Mineralogie in Sachsen*, 1939: pp. 107, 124 & 231-2. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 157. • LKG: XVI 424. • Roller & Goodman, *Catalogue*, 1976: 2, 360 [hand-colored copy]. • Sinkankas, *Gemology Bibliography*, 1993: no. 5452. • USGS Library Catalog. • Wagner, *Mineralogisch Durchforschung Sachsens*, 1902: p. 91-2. • Ward & Carozzi, *Geology Emerging*, 1984: no. 1873.

**RICHTER, Georg Gottfried.****4111. — Latin, 1719 [Collection catalog].**

Gazophylacium sive Catalogus Rerum Mineralium et Metallicarum, ut et tam Domesticorum quam Exoticorum, varia Rudera urbium Fructicum, Quopraesentantium ... collegit G.G.R. ... Freibergae, 1719.

8°: 58 p.

VERY RARE. Another issue was published in Leipzig in the same year. This appears to be a catalog of metallic minerals in the author's collection. Since it was published in Freiberg, the collection was probably built around minerals found in the many mines of the area.

REFERENCES: Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 260. • LKG: XV 5.

**RIESE, Friedrich Christian von.** (BORN: 6 December 1790; DIED: Bonn, Germany, 23 October 1868) *German mathematician & crystallographer.*

Professor at Bonn.

REFERENCES: DBA: I 1038, 351; II 1076, 26-27. • Poggendorff: 2, col. 642 & 3., • WBI.

**4112. — German, 1829.**

Vorschläge | zu einem neuen | Goniometer, |  
 mit welchem man | sowohl spiegelnde als matte  
 Krystalle | so genau, | als es die Natur ihrer  
 Oberflächen nur gestattet, | messen kann. |  
 Nebst einem Anhang, | enthaltend die Angabe  
 eines Werkzeugs | zu der Zeichnung sämtlicher  
 Kegelschnitte | (Konographs). | Von | F.C. von  
 Riese, | [...3 lines of titles and memberships...] | [rule]  
 | Mit zwei Steindrucktafeln. | [tapered rule] | Bonn,  
 | bei Eduard Weber, | 1829.

8°: xiv, [2], 100 p., 2 plates. VERY SCARCE.

REFERENCES: BMC: 4, 1703. • GV (1700-1910): 117, 432.

**RIESS, Johann Philipp.**

REFERENCES: Baur, *Allgemeines historisches Handwörterbuch*, 1803. • DBA: I 1038, 232-261; II 1075, 419. • Hirsching, *Historisch-literarisches Handbuch*, 1794-1815. • Jöcher, *Gelehrten-Lexikon, Supplement*. • Meusel, *Verstorbenen Teutschen Schriftsteller*, 1802-16. • Poggendorff: 2, cols. 641-2. • WBI.

## RINMAN

### 4113. — German, 1791.

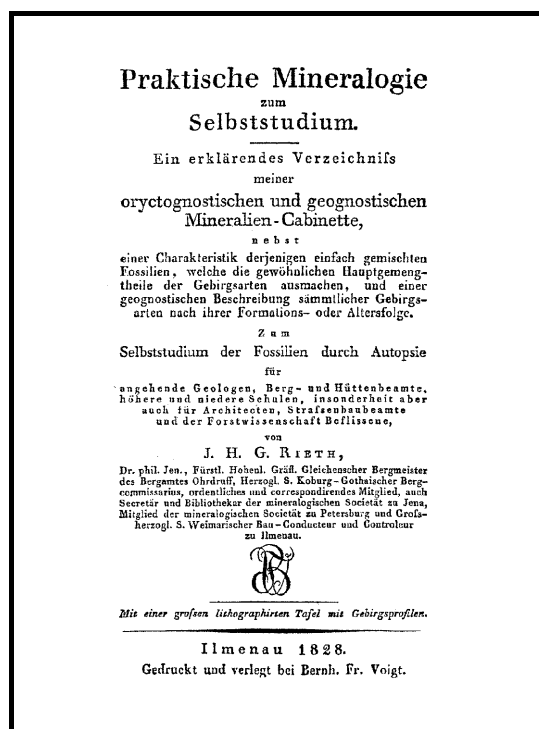
Mineralogische und bergmannische Beobachtungen über einige Hessische Gebirgsgegenden. Von J.P. Riess. Herausgegeben von D.L.G. Karsten. Berlin, 1791.

8°: VERY SCARCE.

REFERENCES: LKG: XIV 130.

### RIETH, J.H.G. *German librarian.*

Rieth was librarian of the Mineralogical Society of Jena and "Bergmeister" in Ohrdruff (Thuringen). He was also a member of the Mineralogical Society of St. Petersburg.



PRAKTISCHE MINERALOGIE, 1828

### 4114. — German, 1828.

Praktische Mineralogie | zum | Selbststudium.  
| [short rule] | Ein erklärendes Verzeichniß |  
meiner | oryctognostischen und geognostischen |  
Mineralien-Cabinette, | nebst | einer Charak-  
teristik derjenigen einfach gemischten | Fossilien,  
welche die gewöhnlichen Hauptgemeng- | theile der  
Gebirgsarten ausmachen, und einer | geognostis-  
chen Beschreibung sämtlicher Gebirgs- | arten  
nach ihrer Formations- oder Altersfolge. | Zum |  
Selbststudium der Fossilien durch Autopsie | für |  
angehende Geologen, Berg- und Hüttenbeamte, |  
höhere und niedere Schulen, insonderheit aber |  
auch für Architekten, Strassenbaubeamte | und der

Forstwissenschaft Beflissene, | von | J.H.G. Rieth,  
| [...7 lines of titles and memberships...] | [ornament] |  
[rule] | Mit einer grossen lithographirten Tafel mit  
Gebirgsprofilen. | [tapered rule] | Ilmenau 1828. |  
Gedruckt und verlegt bei Bernh. Fr. Voigt.

8°:  $\pi^5$  1-6<sup>8</sup> 7<sup>3</sup>; 56 $\ell$ .; [I]-X, [1]-100, [2] p., one  
lithographed folding plate. PAGE SIZE: 200 x 118 mm.  
CONTENTS: [I-II], Title page, verso blank.; [III]-  
VIII, "Vorbericht."—signed I.H.G. Rieth, 1828.; [IX]-  
X, "Inhalt.;" [1]-100, Text.; [2 pgs], Publisher's list.;  
[At end], One folding plate, "Profilartige Uebersicht von  
sämtlichen Gebirgsbildungen." (390 x 500 mm).

RARE. This text is designed to allow the reader to  
begin a program of self study in mineralogy. After an  
introduction (pp. 1-7) a discussion of mineralogy (pp.  
8-46) is given followed by one of geology (pp. 47-100).  
The text also provides explanations to a small cabinet of  
29 mineral and 103 geological specimens assembled by  
the author in different wooden boxes for sale. The plate  
shows "Uebersicht von sämtlichen Gebirgsbildungen,"  
which provides an overview of a collection of 56 different  
geological layers. [Entry by Andreas Mueller]

REFERENCES: BL: [no copy listed]. • Reichardt,  
*Bibliotheca Rerum Metallicarum*, 1857: pp. 113-4 [citing  
wrong year of 1823].

### RINMAN, Sven. (BORN: Uppsala, Sweden, 12 June 1720; DIED: Eskilstuna, Sweden, 20 December 1792) *Swedish mining expert.*

REFERENCES: DSB: 11, 463-4. • Forsstrand, C., *Sven  
Rinman, Minnesteckning*. Stockholm, 1920. • Poggendorff:  
2, cols. 646-7 & 1438. • *Svenskt Biografiskt Lexikon*: 30, 212.

### 4115. — Swedish, 1766.

Aminnelse-Tal ofver framledne Bermastarten och  
Kongl. Vetenskaps Academ. ledamot, valborne  
Herr Axel Fred. Cronstedt: på Kongl. Academiens  
vagnar, hallet i stora Riddarhus-salen den 6. Martii,  
1766 af Sven Rinman. Stockholm, Tryckt hos L.  
Salvius, 1766.

8°: 40 p.

VERY SCARCE. Rinman's memorial to the life of  
AXEL FREDRICH CRONSTEDT, the best contemporary  
biography.

REFERENCES: BL.

### 4116. — Swedish, 1782.

Försök till Järnets Historia med Tillämpning för  
Slöjder och Handverk författadt af Swen Rinman  
... Stockholm, Tryckt hos Petter Hesselberg, 1782.

2 vols. [VOL 1] 4°: [10], 14-45, 48-62, 471 p. [VOL  
2] 4°: [2], 473-1083, [1] p., 2 engraved plates. Engraved  
t.p.s. Half-title: Jarnets historia. Page numbers 46-  
47 (first count) omitted. Errata: p. [1084.]. Includes  
index. Two engraved leaves of plates tipped onto outer  
edges of p. 136 and 909.

VERY SCARCE. An extensive treatise on the  
chemistry, mineralogy and metallurgy of iron, cast  
iron and steel. Written at the end of the eighteenth  
century, iron was only then becoming the foundation on  
which modern manufacturing industry would be built.

Rinman is credited with showing that iron rusts with exposure to water followed by exposure to air, which he thought showed the metal contained an acid. He further thought that cast iron was changed into steel by the loss of phlogiston.

REFERENCES: BL. • LKG: XVI 249. • Partington, *History of Chemistry*, 1961-70: 3, 178.

**4117. German transl., 1784:** Herrn Swen Rinmann ... Versuch einer Geschichte des Eisens oder chemisch-mineralogisch-metallurgische Abhandlung vom Eisen, dessen natürl. Zustände, Behandlungen mit prakt. Anwendung für Gewerbe und Handwerke. Aus dem Schwedischen übersetzt von Johann Georg Georgi ... Berlin, Bey Haude und Spener, 1785.

2 vols. [VOL 1] 8°: xvi, 512 p. [VOL 2] 8°: [6], 456, [34] p., 2 folding plates.

VERY SCARCE. Translation by JOHANN GEORG GEORGI of *Försök till Järnets Historia* (Stockholm, 1782).

**Another translation, 1815:** *Geschichte des Eisens mit Anwendung für Künstler und Handwerker*. Aus dem Schwedischen übersetzt und mit Anmerkungen und Zusätzen versehen von C.J.B. Karsten. Liegnitz, Joh. Friedr. Kuhlmeier 1815. 2 vols. xvi, 679 p.; [2], 811, [2] p.

REFERENCES: BL: [990.f.20.]. • LKG: XVI 250.

#### 4118. — Swedish, 1788-9.

Bergwerks Lexicon, författadt af Sven Rinman, ... Första Delen. Stockholm, Tryckt hos Johan A. Carlbohm, 1788-9.

2 vols. [VOL 1: 1788] 4°: [12], [1]-568, [2], 569-1096 p., engraved title page (A-K). [VOL 2: 1789] 4°: [2], [1]-480, [2], 481-1248, [26] p., engraved title page (L-Ö). [Atlas] 2°: 34 plates, no title page.

VERY SCARCE. This is a lengthy and comprehensive dictionary of Swedish terms related to mining, metallurgy, mineralogy, assaying, etc., illustrated by 34 plates. It is also reported that the book is known to be bound in 4 and 5 volume sets.

REFERENCES: BL. • LKG: VIII 10. • SWIM: 19, nos. 176 & 185.

**4119. German transl., 1808:** Swen Rinmann's ... allgemeines Bergwerkslexicon. Nach dem schwedischen Original bearbeitet und nach den neuesten Entdeckungen vermehrt, von einer Gesellschaft deutscher Gelehrten und Mineralogen. Leipzig, F.C.W. Vogel, 1808.

2 vols. [VOL 1] 8°: ?? p. (A-Berg). [VOL 2] 8°: ?? p. (Bericht-F).

VERY SCARCE. An incomplete translation into German of *Bergwerks Lexicon* (Stockholm, 1788-9). Apparently only the first two volumes (through the letter F) appeared.

REFERENCES: BL. • LKG: VIII 11a.

#### 4120. — Swedish, 1829.

Handbok uti den Grofne Jern- och Stal- Förädlingen. 1-2 Andra upplagan. Falun, C.R. Roselli, 1829.

[Part 1] 8°: [2], Engraved title page, 38, 436 p. [Part 2] 8°: viii, 240 p., one folding table.

VERY SCARCE. A handbook on iron and steel manufacture.

REFERENCES: BL.

**RÍO, Andrés Manuel del.** (BORN: Madrid, Spain, 10 November 1764; DIED: Mexico City, Mexico, 23 March 1849) *Spanish mineralogist*.

Del Río was educated in theology and classical languages at San Isidro, Spain. Because of his excellent scholarship he was sent to study at the Freiberg



DEL RÍO

Bergakademie under A.G. WERNER. On his travel back to Spain, he made excursions throughout the mining districts of Europe, learning as much as possible. In France, he became associated with A. LAVOISIER in Paris, but when the French chemist was seized, Del Río was forced to flee to England. In 1793, he was appointed the first professor of mineralogy at the newly formed Colegio de Minería (School of Mines) in Mexico City. While there he was the first to recognize in the mineral vanadinite a new element he named erthronium. Samples he sent to Europe for confirmation were wrongly said to contain only chromium, and it was not until later that it was shown Del Río was the first discover of the element now known as vanadium.

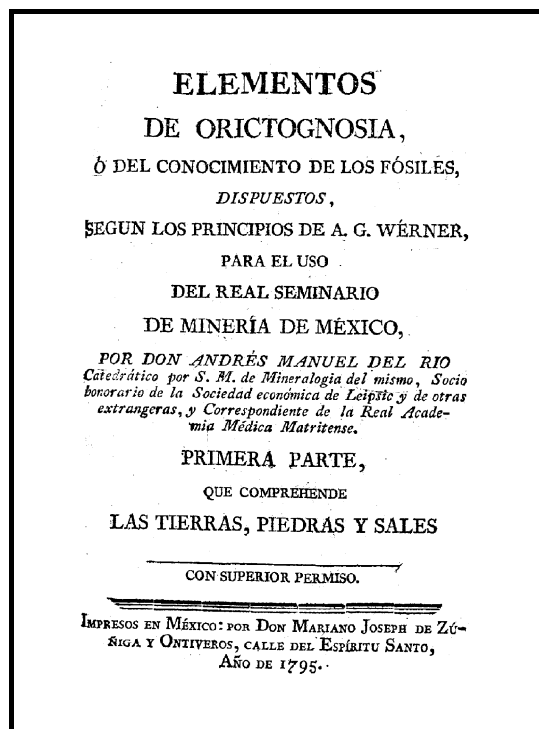
REFERENCES: ABE: I 799, 325-336; II 767, 237-241; III 390, 173-175. • Alessio Robles, V., *El ilustre Maestro Andrés Manuel del Río*. Mexico, 1937. 31 p., portrait. • Arnáiz y Freg, A., "Don Andrés del Río, descubridor del Eritrono (Vanadio)," *Rev Historia de América*, 25 (1948), 27-68. • DSB: 11, 464-5 [by W.T. Hosler]. • ISIS, 1913-65: 1, ??, • Maffei & Rua Figuera, *Bibliografía Mineral*, 1871-2: 3, 88-93. • Poggendorff: 2, col. 647. • Ramírez, S., *Biografía del Sr.D. Andrés Manuel del Río Primer Catedrático de Mineralogía del Colegio de Minería*. Mexico, Sagrado Corazon de Jesus, 1891, 56 p., one plate. • Sarjeant, *Geologists*, 1980: 3, 1985 & Suppl. 2 (1986), 2, 572-3. • WBI. • Weeks, *Discovery of the Elements*, 1934: 225-35. • Wilson, *History of Mineral Collecting*, 1994: 141-2. • *World Who's Who in Science*: 440.

#### 4121. — Spanish, 1795 [First edition, part 1].

Elementos | De | Orictognosia, | ò del conocimiento de los fósiles, | dispuestos, | segun los principios de A.G. Wérner, | para el uso | Del Real Seminario | De Minería De México, | Por Andrés Manuel del Río | [...4 lines of titles and memberships...] | Primera Parte, | que comprehende | Las Tierras, Piedras Y Sales | [rule] | con superior permiso. | [ornate rule] | Impresos en México: por Don Mariano Joseph de Zú- | ñiga y Ontiveros, calle del Espíritu Santo, | Año de 1795.

4°: vi, 28, xl, 172 p. PAGE SIZE: 200 x 142 mm.

VERY SCARCE. The first textbook of mineralogy to be published in North America, this important Mexico City imprint is also the first critical exposition of Werner's theories to be written in Spanish. It was



ELEMENTOS DE ORICTOGNOSIA, 1795

authored and used by Del Río in the mineralogy courses he taught at the newly founded Colegio de Minería (School of Mines) in Mexico City. This course in mineralogy was probably the first formal instruction in the subject in the Americas, and it was Del Río's leadership and excellence as a teacher that brought modern scientific and engineering methods into the mining industry of Mexico. The book reflects Del Río's methods by not simply repeating his former teacher's ideas. Instead the author introduces critical remarks when research as shown other explanations for a particular phenomena, he uses Lavoisier's chemical theories to explain physical qualities, and he includes accounts of his own discoveries. It is a work important in the history of mineralogy in Mexico and the introduction of European scientific methods to the New World. This volume describes the earths, stones and salts. A second remarkably rare volume published in 1805 completes the descriptions by covering the combustibles, metals and rocks.

The Colegio was the first institution of technical education founded in the Americas. Graduates of its comprehensive four-year curriculum, were then assigned to a two-year apprenticeship in one of the many mining districts of the Spanish colonies. Later, they would be promoted to inspectors of mines and given opportunities to work in Spain, Mexico, Central America, and the Philippine Islands.

Facsimile reprint, 1992: *Elementos de Orictognosia* | 1795-1805 | Andrés Manuel del Río | [ornament] | Edición

y estudio introductorio: | Raúl Rubinovich Kogan | [...4 organization logos...] | [rule] | Universidad Nacional Autónoma De México | México, 1992.

Reprints the first edition, parts one and two, of Río's *Elementos de Orictognosia*, together with a long introductory essay by Raúl Rubinovich Kogan on Río and his mineralogical work.

REFERENCES: Amorós, *Werner's Mineralogical Ideas in Spain*, 1967. • Dana's 7th (Bibliography): 79. • LKG: XII 142. • Maffei & Rua Figuera, *Bibliografía Mineral*, 1871-2: 2, 92-3, no. 2114. • NUC: 495, 620-1 [NR 0288671]. • Palau, *Manual*, 1948-77: no. 268177.

4122. — Spanish, 1805 [First edition, part 2]. *Elementos* | *De Orictognosia*, | *Ó Del Conocimiento De Los Fósiles*, | *Dispuestos*, | *Segun Los Principios De A.G. Wérner*, | *Para El Uso* | *Del Real Seminario* | *De Minería De México*, | *Por Don Andres Manuel Del Rio*. | *Segunda Parte*, | *Que Comprehende* | *Combustibles, Metales Y Rocas*, | *Seguidos* | *De La Introduccion A La Pasigrafia Geológica* | *Del Señor Baron De Humbolt* | *Inédita Hasta Ahora Con Tres Láminas*. | [rule] | *Con Superior Permiso*. | [double rule] | México: | *En la Imprenta de Don Mariano de Zúñiga y Ontiveros*. | Año de 1805.

4°:  $\pi^4$  A-Z<sup>4</sup> 2A-2B<sup>4</sup> 2C<sup>3</sup>; 107ℓ.; [2], I-XII, 1-200 p., 3 folding plates showing geological diagrams. VERY RARE.

CONTENTS: [2 pgs], Title page, verso blank.; I-XII, "Introduccion" [reviews the system of Karsten]; 1-174, Text.; 175-192, "Adiciones Y Correcciones | Al Primer Tome."; 193-200, "Índice." [index to both parts].

REFERENCES: Maffei & Rua Figuera, *Bibliografía Mineral*, 1871-2: 2, 92-3, no. 2114.

4123. 2nd edition, part 1, 1832: *Elementos* | *de* | *Orictognosía*, | *ó del* | *Conocimiento de los Fósiles*, | *segun el sistema de Berzelio*; | *y segun los* | *Principios de Abraham Góttlob Wérner*. | *Con la* | *Sinonimia* | *Inglesa, Alemana y Francesa*, | *para uso del* | *Seminario Nacional de Minería* | *de México*. | [tapered rule] | *Por el C. Andres del Rio*, | [...2 lines of titles and memberships...] | [tapered rule] | *Parte Práctica—Segunda Edicion*. | [tapered rule] | Filadelfia: | *Imprenta de Juan F. Hurtel*. | 1832.

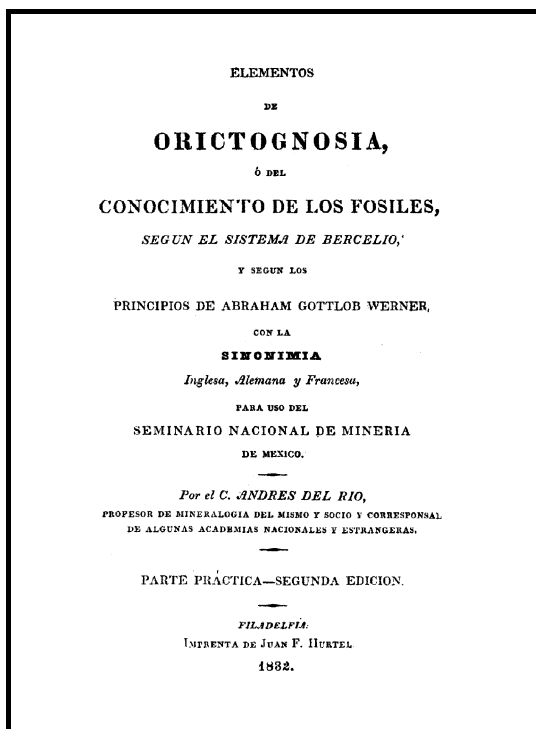
4°:  $\pi^4$  [A]-Z<sup>4</sup> 2A-2Z<sup>4</sup> 3A-3Z<sup>4</sup> 4A-4P<sup>4</sup> 4Q<sup>6</sup>; 346ℓ.; [i]-vii, [1] blank, [1]-683, [1] p., 24 plates of crystal drawings.

CONTENTS: [i-ii], Title page, verso blank.; [iii]-vii, "Prologo."; [1 pg], Blank.; [1]-658, Text.; 659-670, "Índice Castellano."; 671-683, "Índice Ingles, Aleman y Frances."; [1], "Correcciones y Adiciones."; [At end], 24 plates.

VERY SCARCE. This volume describes the practical part of mineralogy. The first portion titled, "Caractéres de las Géneros y de Algunas Especies," gives a synopsis listing of mineral species. The volumes remainder is a descriptive mineralogy of commonly encountered species. A second part was published in 1846 which contains a more thorough descriptive mineralogy.

REFERENCES: Maffei & Rua Figuera, *Bibliografía Mineral*, 1871-2: 2, 92-3, no. 2114. • NUC: 495, 620-1 [NR 0288672]. • Palau, *Manual*, 1948-77: no. 268178.

4124. 2nd edition, part 2, 1846: *Elementos* | *De* | *Orictognosía* | *ó Del* | *Conocimiento De Los Fosiles*, | *Segun El Sistema Del Baron Berzelio*, | *Y Segun Los* | *Principios De Abraham Gottlob Werner*, | *Para Uso Del* | *Seminario Nacional De Minería*. | [ornate rule] | *Por el C. Andres Del Rio*, | [...7 lines of titles and memberships...] | [ornate rule] | *Parte Preparatoria.—Segunda Edicion*. | [ornate



ELEMENTOS DE ORICTOGNOSÍA, 1832

rule] | México. | [rule] | Imprenta de R. Rafael, calle de Cadena num. 13. | [rule] | 1846.

4<sup>o</sup>: π<sup>16</sup> 3-18<sup>6</sup>; 113ℓ.; [30], [i]-xxvii, [1], [1]-167, [1] p., 5 folding plates (numbered I-V; showing mostly crystal drawings and apparatus). PAGE SIZE: 220 x 134 mm.

CONTENTS: [2 pgs], Title page, verso blank.; [1 pg], Dedication to Don José Gomez de la Cortina.; [1 pg], Blank.; [3 pgs], "Prólogo."; [1 pg], Blank.; [21 pgs], "Caracteres exteriores | -De- | Los Fósiles, | Dispuestos Sistemáticamente | Por Tablas."; [1 pg], Blank.; [i]-xxvii, "Caracteres De Los Fosiles Por Orden Alfabético."; [1 pg], Blank.; [1]-158, Text.; [159]-160, "Indice De Lo Mas Principal."; 161-167, "Erratas."; [1 pg], Blank.

RARE. Second volume of the second edition of *Elementos de Orictognosia* (Filadelfia, 1832). This volume contains a descriptive mineralogy.

REFERENCES: LKG: XII 142. • Maffei & Rua Figuera, *Bibliografía Mineral*, 1871-2: 2, 92-3, no. 2114. • NUC: 495, 620-1 [NR 0288673].

4125. 2nd edition, suppl., 1848: Suplemento | De | Adiciones Y Correcciones | De Mi Mineralogia, | impresa en Filadelfia en 1832; | Esto es, diez y seis años hace, en cuyo tiempo se han hecho en Europa y en los Estados-Unidos varios | descubrimientos que les importa saber á los alumnos de Minería | Por el ciudadano Andrés del Rio. | [...2 lines of titles and memberships...] | [ornament] | Mexico. | [wavy rule] | Tipografía de R. Rafael, calle de Cadena núm. 13. | [wavy rule] | 1848.

8<sup>o</sup>: \*<sup>3</sup> B-Q<sup>8</sup> R<sup>4</sup>; 127ℓ.; [8], [3]-247, [1] p., frontispiece (portrait of Del Rio), one folding plate (size, 210 x 250 mm.; showing crystal drawings and diagrams). PAGE SIZE: 210 x 125 mm.

CONTENTS: [Frontispiece].; [2 pgs], Title page, verso blank.; [1 pg], Dedication to D. Luis de la Rosa.; [1 pg], "Cui lecta potenter erit res | ..."; [4 pgs], "Introduccion."; [3]-217, "Lista Critica, | por Orden Alfabético."; [218], Blank.; [219]-240, "Errata | De | La Segunda Parte |

De Mineralogía."; [241]-243, "Apendice De Otros Fosiles."; [244], Blank.; [245]-247, "Errata De Este Suplemento."; [1 pg], Blank.

RARE. Supplemental volume to the second edition of *Elementos de Orictognosia* (Filadelfia & Mexico, 1832-46), containing some of the author's last researchs. The fine portrait shows the head and bust of del Río.

REFERENCES: Maffei & Rua Figuera, *Bibliografía Mineral*, 1871-2: 2, 92-3, no. 2114. • NUC: 495, 620-1 [NR 0288678]. • Palau, *Manual*, 1948-77: no. 268183.

Nuevo sitema mineral del Sr. Berzelio, del año de 1825, traducido del francés, con algunas notas y adiciones por ... Don Andres Manuel Del Rio (México, 1827).

See: Berzelius, Jöns Jakob.

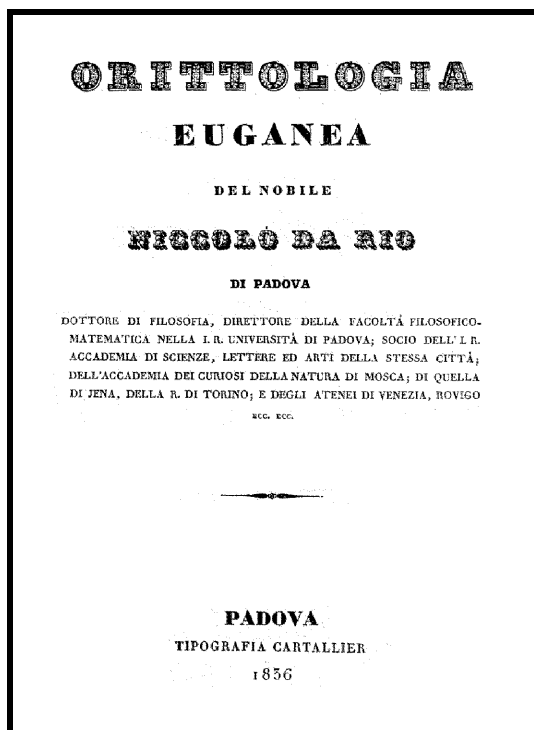
Tablas mineralogicas dispuestas segun los descubrimientos mas recientes é ilustradas con notas por D.L.G. Karsten ... Traducida ... por Don Andres Manuel Del Rio (México, 1804).

See: Karsten, Dietrich Ludwig Gustav.

RIO, Niccolò da. (BORN: Padua, Italy, 1 August 1765; DIED: 1845) *Italian chemist & mineralogist*.

Rio was director of the philosophical and mathematical studies at the University of Padua under Napoleon. Afterward, he became inspector of the forests in the region of Brenta. Rio was a member of the Venetian Institute.

REFERENCES: ABI: I 345, 240-244. • *Dizionario Biografico Italiani*. • Poggendorff: 1, col. 522. • WBI.



ORITTOLOGIA EUGANEA, 1836

4126. — Italian, 1836.

Orittologia | Euganea | Del Nobile | Niccolò Da Rio | Di Padova | [...6 lines of titles and memberships...] | [ornate rule] | Padova | Tipografia Cartallier | 1836.



## RITTER

4°: 179 p., 2 large folding plates. PAGE SIZE: 280 x 210 mm.

RARE. A topographical work, describing the mineralogy of the Euganean hills of Italy.

REFERENCES: NUC. • Personal communication: [Title page supplied by Adriana and Renato Pagano, 2005].

### 4127. — Italian, 1836.

Catalogo Ragionato delle Rocce e delle Altre Produzioni Minerali dei Monti Euganei. Tratto dall'Orittologia Euganea. Padua, Cartallier, 1836.

4°: 40 p.

RARE. This text catalogs the minerals and rocks of the Euganean hills of Italy with very complete notes and references. It was written as a supplement to the author's *Orittologia Euganea* of the same year.

REFERENCES: *Bibliographie Géologique l'Italie*, 1881: no. 5633. • Ward & Carozzi, *Geology Emerging*, 1984: no. 1878.

**RITTER, Albrecht.** (BORN: Holzhausen (Gotha), Germany, 2 June 1684; DIED: Ilfeld, Germany, 1748) *German educator.*

Ritter was the first "Hofmeister," then in succession Substitut (1717), Subconnector (1721), Connector (1723) and Prorektor (1740) at the royal Stiftsscollegiums at Ilfeld. He held membership in the Leopoldinian Academy.

REFERENCES: ADB. • Börner, *Vornehmsten Lebensumständen*, 1749-64. • DBA: I 1041, 330-359; II 1080, 275. • Hirsching, *Historisch-literarisches Handbuch*, 1794-1815. • Jöcher, *Gelehrten-Lexikon, Supplement*. • Meusel, *Verstorbenen Deutschen Schriftsteller*, 1802-16. • Poggendorff: 1, col. 651. • WBI.

### 4128. — Latin, 1731 [Part 1].

A. Ritter ... Lucubrationum de Alabastris Hohnsteinensibus Nonnullisque aliis ejusdem loci Rebus Naturalibus, etc. [Helmstadt,] 1731.

4°: 16 p., one plate with VII figures. VERY SCARCE.

REFERENCES: BL: [444.c.25.]. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, p. 111. • LKG: XIV 230. • Ward & Carozzi, *Geology Emerging*, 1984: no. 1880.

### 4129. — Latin, 1732 [Part 2].

A. Ritter ... Lucubrationum II. De Alabastris Schwartzburgicis, cui Subnexa est Rerum Quarundam Naturalium ejusdem Terrae Brevis Delineatio. [Helmstadt,] 1732.

4°: 31 p., one fold-out plate with IV figures. VERY SCARCE.

REFERENCES: BL: [444.c.26.]. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, p. 111. • LKG: XIV 231a.

### 4130. — Latin, 1733.

Alberti Ritter | [...2 lines of titles and memberships...] | Epistolica | Oryctographia | Goslariensis | Ad | Excellentissimum Experientissimumque | Virum | Avgvst. Johannem | Hvgo | [...8 lines of titles and memberships...] | [rule] | Helmstadii, | [rule] | Litteris Bvchholzianis, 1733.

4°: 15 p., one fold-out plate with VII figures. RARE.

REFERENCES: BL: [726.c.3.(3.)]. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, p. 101. • LKG: XIV 145.

**4131. 2nd edition, 1738:** A. Ritter ... Epistolica Historicophysica Oryctographia Goslariensis ... Editio altera priore muto auctor et corrector. Sondershusae, 1738.

4°: 32 p., 2 plates. RARE.

REFERENCES: BL: [444.c.39.]. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, p. 101.

### 4132. — Latin, 1734 [Part 1].

A. Ritter ... Commentatio Epistolaris I. De Fossilibus et Naturae Mirabilibus Osterodanis, etc. Sondershusae, 1734.

4°: 23 p. VERY SCARCE.

REFERENCES: BL: [444.c.14.(9.)]. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, p. 142. • LKG: XIV 160.

### 4133. — Latin, 1736 [Part 2].

Commentatio II. de Zoolithodendroidis in genere et in specie de Schwartzburgico-Sonderhusanis ... una cum supplemento rerum naturalium et curiosarum hujus regionis in Lucubrationum II. de Alabastris Schwartzburgicis quondam a me delineatarum, &c. Sondershusae, 1736.

4°: 34, [6] p., 2 fold-out plates with III figures & VI figures, respectively. VERY SCARCE.

REFERENCES: BL: [444.C.-14.(10.)]. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, p. 166. • LKG: XIV 232b.

### 4134. — Latin, 1740.

Schediasma de nucibus margacis vulgo Mergel-Nussen. Sondershusae, 1740.

8°: 16 p., one plate. VERY SCARCE.

REFERENCES: Gatterer, *Mineralogischen Literatur*, 1798-9: 2, p. 161. • LKG: XVI 318.

### 4135. — Latin, 1740.

Alberti Ritter | [...one line of titles and memberships...] | Relatio Historico-Cvriosa | De | Iterato Itinere | In | Hercyniae | Montem Famosissimum | Brvctervm | Ad | Excellentissimum Doctissimumque | Virum | Franciscvm Ernestvm Brvckmann | [...10 lines of titles and memberships...] | [rule] | Cvrm Figvris | Aeneis. | [double rule] | Helmstadii A.R.S. MDCCXXX.

4°: 56 p., 5 folded leaves of plates, illus. Printed in Hannover by Imprimatur B. Mentzer.

VERY SCARCE. Includes bibliographical references.

REFERENCES: BL: [445.b.32.(1.)]. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, p. 66. • *Göttingische gelehrte Anzeigen*: 1740, p. 197 ["Gehört zu den guten Beschreibungen dieses Berges, obgleich die Kupfer nicht ganz getren sind."]. • LKG: XIV 161a.

**4136. German transl., 1744:** Albert Ritters ... Historische Nachricht von einer doppelten Reise nach dem auf dem Harze belegenen so berühmten Berge gemeinlich Blocksberg genandt aus dem Lateinischen ins Teutsche übersetzt. Magdeburg, Gedruckt und zu finden bey Gottfried Vetterin, 1744.

8°: 112 p.

VERY SCARCE. Without the knowledge of Ritter, his *Relatio historico-curiosa de iterato itinere in Hercyniae* was translated into German. Appended are Wendelin Helbach's Latin verses on the Blocksberg with German

prose translation, and anonymous Knittelverse on the same. Includes notes on the historical events and on the folklore.

REFERENCES: Gatterer, *Mineralogischen Literatur*, 1798-9: 1, p. 66-67. • NUC.

#### 4137. — Latin, 1741-3.

Alberti Ritter, | [...5 lines of titles and memberships...] | Specimen I. | Oryctographiae | Calenbergicae | Sive | Rervm Fossilivm | Qvae sub Adpellatione Rervm Natvralivm | Plervmqve Venivnt | Et In Ducatu Electorali Brvnsvico-Lvne- | bvrigo Calenberg Ervvntvr | Historico-Physicae Delineationis | [rule] | Cvm Figvris Aeri Incisis | Lapidvm Qvorvmdam Figvrvtorvm | Rariorvm | [double rule] | Sondershvsae A.R.G. MDCCXLI.

2 parts. [Part 1: 1741] 4°: 20 p., one folding plate with VI figures. [Part 2: 1743] 4°: 32 p., one plate. RARE.

REFERENCES: BL: [B.330.(9.)]. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, p. 73. • LKG: XIV 146a. • Ward & Carozzi, *Geology Emerging*, 1984: no. 1881.

4138. German transl., 1744: Historisch-Physikalisches | Send=Schreiben | von | dem in der Marck=Brandenburg belegen | merck= und wundernswürdigen | Arend=See, | An den | Hoch=Chrwürdigen in GOtt andächtigen und | Hochgelahrten Herrn, | Herrn | Otto Joachim Anhalt | [...7 lines of titles and memberships...] | von | Albrecht Ritter | [...3 lines of titles and memberships...] | [rule] | Gedruckt Sonderhausen im Jahr 1744.

4°: 24 p. VERY SCARCE.

REFERENCES: BL: [B.330.(11.)]. • LKG: XIV 192.

#### 4139. — Latin, 1748.

Alberti Ritter | [...3 lines of titles and memberships...] | Svb Denominatione Chrysermi II. | Svpplementa | Scriptorvm Svorvm | Historico-Physicorvm | Svccessv Temporis | Particvlatim In Lvcm Editorum | Vna Cvm | Syllabo | Fossilivm Carlshvttensivm, | Cvriosis | Hactenvs Plane Incognitorvm Et A Nemine | Adhvc Descriptorvm. | [rule] | Cvm Figvris Aeri Inscvlpitis. | [ornate rule] | Helmstadii | Ex Officina Michaelis Gvntheri Levckart | A.R.G. M DCC XLVIII.

4°: 120 p., one plate. RARE.

REFERENCES: BL: [B.330.(12.)]. • LKG: XIV 162b.

#### RIVAS MATEOS, Marcelo.

##### 4140. — Spanish, 1900 [First edition].

Compendio de Mineralogía Descriptiva aplicada a la farmacia industria y agricultura. Antecedida de unas ligeras nociones de ensayos químicos de los minerales, por Marcelo Rivas Mateos, Catedrático de la Universidad de Barcelona. Barcelona, Establecimiento tipo-litográfico de José Cunill. Cortes, 212 y bajada Viladecols, 3, 1900.

8°: 398 p.

RARE. The first part of the work describes the chemistry and chemical manipulation of minerals, including assaying and analysis in both the wet and

dry ways. Properties such as crystallography, hardness, lustre, etc. are also covered. The second part is a descriptive mineralogy organized along the classification of Tschermak, which divided the minerals into nine chemical classes. Through out, emphasis is placed on the industrial uses of the minerals, especially in pharmacy, chemistry and agriculture. Notice is also given to the species that were known to occur in Spain.

REFERENCES: Calvo Rebollar, *Bibliografía Mineralogía Españolas*, 1999: p. 199-200. • NUC.

4141. 2nd edition, 1906: Compendio de Mineralogía Aplicada a la farmacia industria y agricultura, y estudio especial de los minerales de España, por Marcelo Rivas Mateos. Madrid, Establecimiento tipo-litográfico de Fortanet, 1906.

8°: 559 p., illus., diagrams. An expanded edition, following the format of the first, and describing the uses of minerals in Spanish industry. RARE.

REFERENCES: NUC.

#### RIVIERE, Auguste.

##### 4142. — French, 1864.

Precis de Mineralogie comprenant les principes de cette sciences, la description des minéraux et des roches, leurs principaux usages. Paris, Didot, 1864.

8°: 408 p., one plate (colored), 421 illus. VERY SCARCE.

REFERENCES: BL: [7107.bbb.34.].

#### ROBIEN, De.

See: Gautron De Robien, Christophe Paul.

ROBINSON, Samuel. (BORN: 3 March 1783; DIED: Providence, Rhode Island, 17 February 1827) *American physician & mineralogist*.

Robinson graduated from Dartmouth College in 1812. He was a member of the American Geological Society.

REFERENCES: *The genealogy of George Robinson of Rehoboth*. [London], 1945: 11.

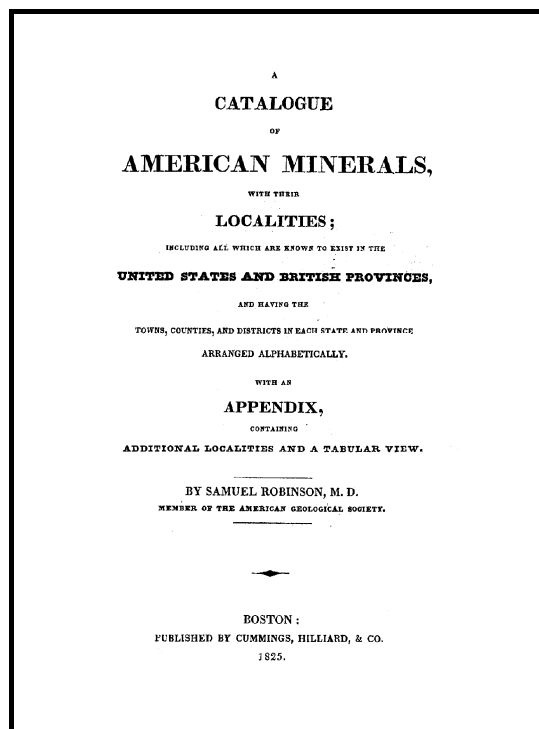
##### 4143. — English, 1825.

A | Catalogue | Of | American Minerals, | With Their | Localities; | Including All Which Are Known To Exist In The | United States And British Provinces, | And Having The | Towns, Counties, And Districts In Each State And Province | Arranged Alphabetically. | With An | Appendix, Containing | Additional Localities And A Tabular View. | [rule] | By Samuel Robinson, M.D. | Member Of The American Geological Society. | [rule] | [tapered rule] | Boston: | Published By Cummings, Hilliard, & Co. | 1825.

8°:  $\pi^4$  1-38<sup>4</sup> 39<sup>2</sup> 40<sup>4</sup>; 162ℓ.; [i]-vi, [2], [1]-316 p. PAGE SIZE: 218 x 127 mm.

CONTENTS: Title page, verso "District Of Massachusetts, To Wit. | ..."; [iii]-vi, "Preface."; [1 pg], "Index."; [1 pg], "Errata."; [1]-304, Text.; [305]-316, "A | Tabular View | Of The Number Of Localities Of Each Mineral In Every State, And The | Total Number In The United States."

VERY SCARCE. The first comprehensive catalog of American mineral localities and one of the earliest mineralogical treatises published in the United States. It is, the preface declares, "not only calculated for a



CATALOGUE, 1825

guide to those who are traveling to make collections; but to the mineralogist who is stationary, it presents a condensed view of the minerals he may wish to obtain." Robinson compiled the localities by thoroughly searching the literature, and in particular he notes his debt to Parker Cleaveland's *Treatise* (2nd ed., Boston, 1822) and *The American Journal of Science*. This work, for many years the authoritative source on America's mineral resources, attracted enough attention that Frederick Hall published an article correcting the errors contained in the catalog [See: *American Journal of Science*: 15 (1829), 197–9].

REFERENCES: *American Journal of Science*: 1st Series, 9 (1825), 396–7. • BMC: 4, 1714. • *Boston Journal of the Philosophical Arts*: 2 (1825), 505 [by J.W. Webster]. • Dana's 7th (Bibliography): 79. • Hazen & Hazen, *American Geological Literature*, 1980: no. 8822. • *North American Review*: 21 (1825), 233–4 [by J.W. Webster].

#### 4144. — English, 1829 [Sale catalog].

Descriptive Catalogue | Of A | Collection Of Rare Minerals, | Proper For The Study Of | Crystallography, | Recently Arranged After Phillips; | With Localities And References For The Figures Of | Crystals To His Third Edition. | [rule] | This Collection can be obtained at private sale on application to | who will exhibit specimens. | [rule] | New-York: | G. & C. & H. Carvill, 108 Broadway. | 1829.

8°: [1]–49, [1] p. PAGE SIZE: 212 x 130 mm.

CONTENTS: [1–2], Title page, verso "Persons conversant with Mineralogy."—dated 1 July 1827.; [3]–49, "Descriptive Catalogue."; [1 pg], Blank.

VERY SCARCE. Possibly the sale catalog of Samuel Robinson's mineral collection. Robinson, author of the important *A Catalogue of American Minerals* (New York, 1825), spent much of his life involved in mineralogic studies. After his death in early 1827, Robinson's heirs put his collection up for sale. For this purpose a brief notice appeared in *The American Journal of Science* [See: 13 (1827), 199]. Although the year on the title page of this work indicates publication in 1829, the preface is dated "New-York July 1st, 1827," which implies the catalog existed for at least a year and a half before it was published.

The large size of the collection (1413 specimens) and the inclusion of many European specimens are evidence that this collection was the work of a devoted collector, which is a message that the preface reinforces: "Persons conversant with mineralogy will preceive, after a perusal of the catalogue, that many years of labour have been devoted to the formation of this series of minerals, which is arranged after the best principals of modern science, and enriched by rare crystals. It is the result of private study and of much careful selection ... The rarest minerals of Europe, with choice specimens from India, South America &c., constitute the collection." The arrangement as stated in the title is according to the doctrines of William Phillip's [q.v.] *Elementary Introduction to Mineralogy* (3rd ed., London, 1823).

REFERENCES: Wilson, *History of Mineral Collecting*, 1994: 190 & 222.

**ROBINSON, Thomas.** (BORN: ; DIED: Ousby, Cumberland, England, 1719) *English theologian & naturalist*.

Robinson was appointed rector at Ousby in 1672, a position he held his entire life. His leisure hours were devoted to collecting facts about the mining, minerals, and natural history of Cumberland and Westmoreland.

REFERENCES: Allibone, *Dictionary of English Literature*, 1859–71. • BBA: I 940, 197–201. • DNB: 17, 46. • Watt, *Bibliotheca Britannica*, 1824. • WBI.

#### 4145. — English, 1694.

[Contained within a double rule box:] The | Anatomy | Of The | Earth | [rule] | By Tho. Robinson, | Rector of Ousby in Cumberland. | [rule] | [... 2 lines of quotation ...] | [double rule] | London, | Printed for I. Newton, at the Three Pigeons | in Fleet-street, 1694.

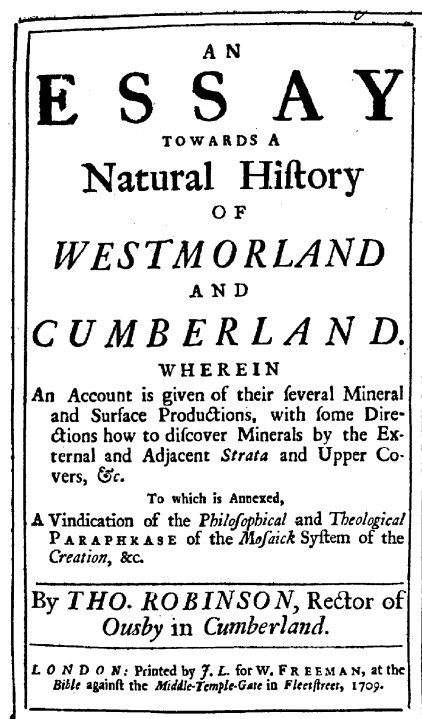
8°: A-C<sup>4</sup> D<sup>3</sup>; 15ℓ.; [6], 1–24 p. Figure showing the interior of the earth occurs on page 19.

CONTENTS: [1 pg], Title page.; [1 pg], "Licenced, | January 12. | 1693 | Edward Cooke."; [2 pgs], "To The | Gentlemen Miners."—signed Tho. Robinson.; [2 pgs], "The | Contents."; 1–24, Text.

RARE. The text has the feel of a series of sermons, perhaps as delivered to his congregation in Cumberland. The 10 chapters of the work are as follows: (1) Creation of Matter. (2) Production of Living Creatures. (3) Of

the Fleishy-Parts and Blood of the hair-veins. (4) Of the several kinds of metals and minerals. (5) Of Water Baths and Hot Springs. (6) Of the Tapping of Feeders, the Nature of Damps, Firing of Mountains, etc. (7) Of Dykes, Rakes, Veins, Strings, &c. (8) Description of the Belly of the Earth. (9) Reason of the Sea's Ebbing and Flowing. (10) The Diurnal Motion of the Earth.

REFERENCES: LKG: XIII 23 & XIII 24a.



ESSAY, 1709

4146. — English, 1709.

[Contained within a double rule box:] An | Essay | Towards A | Natural History | Of | Westmorland | And | Cumberland. | Wherein | An Account is given of their several Mineral | and Surface Productions, with some Directions how to discover Minerals by the External and Adjacent Strata and Upper Co- | vers, &c. | To which is Annexed, | A Vindication of the Philosophical and Theological | Paraphrase of the Mosaick System of the | Creation, &c. | [rule] | By Tho. Robinson, Rector of | Ousby in Cumberland. | [rule] | London: Printed by J.L. for Freeman, at the Bible against the Middle-Temple-Gate in Fleetstreet, 1709.

[TITLE PAGE OF SECOND PART:]

A | Vindication | Of The | Philosophical and Theological | Exposition | Of The | Mosaick System | Of The | Creation. | With | Moral Inferences and Conclusions. | [rule] | By Tho.

Robinson. | [rule] | Non est mortale quod opto. | [rule] | London: | Printed in the Year, 1709.

2 parts in one volume. 8°: A-G<sup>8</sup> H-O<sup>8</sup> P<sup>4</sup>; 116ℓ.; [16], 1-95, [1] p.; [1]-118, [2] p. (page 3 misnumbered 1). PAGE SIZE: 194 x 118 mm.

CONTENTS: [Part 1] [2 pgs], Title page, verso blank.; [6 pgs], Dedication, signed Tho. Robinson.; [4 pgs], "The | Preface."; [4 pgs], "The | Contents | Of The | First Part."; 1-95, Text, ending "The End of the First Part."

[Part 2] [1-2], Title page, verso blank.; 3 (i.e., 1)-98, Text of Sermon.; 99-104, "Of | Magnetisms | And | Influences."; 105-116, "The | Platonick Anima Mundi: | Or, The | Chain of Life Illustrated."; 117-118, "The | Conclusion."; [2 pgs], Publisher's list.

SCARCE. The first part contains 15 chapters that describe mountains, heat and cold, the earth, water, stones, the different classes of matter of the earth, mineral productions of various regions, assaying and purification of metals, the generation, growth and trasmutation of metals, of mundick metals, how to discover mines of coal, and whether there be precious stones in Westmorland and Cumberland. The second portion contains the text of a sermon on the Biblical creation of the earth, including references to magnetism and the development of life.

REFERENCES: Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 88. • LKG: XIII 25b & XIV 411.

ROCHELEAU, William Francis.

4147. — English, 1922.

Minerals | The First Book of | The | Great American Industries | Series | by | W. F. Rocheleau | 1922 | A. Flanagan Company | Chicago.

8°: [1]-212, [4] p., illus. PAGE SIZE: 182 x 122 mm.

CONTENTS: [1-2], Title page, verso "Copyright 1902, 1922 ..."; [3], "Preface."; [4], "Great American Industries ..."; [5], "Contents."; [6], Blank.; [7]-212, Text.; [4 pgs], Advertisements.

VERY SCARCE. Describes the use of minerals such as coal, petroleum, iron, marble, granite, slate, gold, silver, copper and zinc.

REFERENCES: NUC.

ROESSLER (Rössler), Balthasar. (BORN: c1606; DIED: Altenberg, Germany, 1673) *German mining expert.*

4148. — German, 1700 [First edition].

[In red:] Speculum | [in black:] Metallurgiae | Politissimum. | Oder: | [in red:] Hell=polierter | [the following line in red except for the initial letters:] Berg=Bau=Spiegel/ | [in black:] Darinnen zu befinden: | [in red:] Wie man Bergwerck suchen/ ausschürffen/ mit Nutzen bauen/ allent= | [in black:] halben wohl anstellen/ befördern/ dabey alles Gestein und Ertze gewinnen/ fõr= | dern/ rösten/ schmelzen und zu gut machen/ dann auch was darybey zy thun oder zu lassen/ | hierüber ein iedweder/ so dem Bergwerck



SPECULUM METALLURGÆ POLITISSIMUM, 1700

zugehan ist/ wissen | und verstehen soll. |  
[in red:] Allen Berg=Bau=liebenden/ sie kommen  
in=oder nicht in die Grube/ | [in black:] item,  
Grund=Herren/ Gewercken/ Berg=Amtleuten/  
Berg= und Hütten=Vor= | stehern/ Dienern  
und Arbeitern zu Nutz und Unterricht/ und  
dem Edlen Bergwerck zum | besten/ mit allen  
dessen Begebenheiten und Brauchbarkeiten/ aus  
eigener Erfah= | rung/ als einer darzu gebohrnen  
Berg=Wurtzel/ | beschrieben/ | von | [in red:]  
Balthasar Röszen/ Churfl. Sächs. gewe= | [...in  
black, 2 lines of titles and memberships...] | [in black:]  
in Druck gegeben/ und mit Kupffern gezieret/  
durch dessen Enckel | [in red:] Johann Christoph  
Goldberger/ h. t. Königl. Pohln. | [...in black, 3 lines  
of titles and memberships...] | [in red:] Mit Königl.  
Kohln. und Churfl. Sächs. Allergnädigsten | [in  
black:] Privilegio. | [rule] | [in red:] Dresden/ | [in  
black:] Bey Johann Jacob Wincklern/ | Anno 1700.

2°: [a]<sup>2</sup> b-c<sup>2</sup> A-2Z<sup>2</sup> 3a<sup>2</sup> 3A-3I<sup>2</sup>; 117ℓ.; [12],  
168, [54] p., 25 leaves of plates. Includes index.  
Title page in red and black with Schwabacher initials.  
Woodcut Schwabacher and vignette initials, vignette  
and historiated tailpieces; typographic head- and  
tailpieces. Text in gothic type, with occasional Roman;  
typographic tables. PAGE SIZE: 288 x 206 mm.

CONTENTS: [2 pgs], Half title page, "Speculum |  
Metallurgæ | Politissimum," verso blank.; [2 pgs], Title

page, verso "Efaia 60.v.17. | ..."; [4 pgs/=b1r-  
b2v], Dedication, signed Johann Christoph Boldberger,  
3 May 1700.; [4 pgs/=c1r-c2v], "Vorrede.;" [1]-  
168, Text.; [20 pgs/=Vv1r-Zz2v, aaa1rv], "Register/  
derer vornehmster Sachsen/ ..."; [36 pgs/=Aaa1r-Iii2v],  
Deutsche erklärte | Bergmännische Termini und  
Redens=Arten/ | ..."

VERY RARE. Edited by Johann Christoph  
Goldberg, the author's grandson, this is the first edition  
of an important and finely illustrated pioneering work  
on mining and metallurgy, which is also important in  
the development of geological science. "A rare work  
on mining and metallurgy in Saxony at the end of the  
seventeenth century" (Honeyman). Rössler presented  
the idea that mineralized veins were the result of  
infilling of open fissures and this directed attento to  
the significance of crystal druses (incrustations of small  
crystals) in the vein.

The preliminaries feature dedications to the  
patrons: Wolff Dietrich von Beuchlingen, Abraham von  
Schoenberg, Hanns Larln von Carlowitz, and Johann  
Aegidio Alemannen, all high officials in the Saxon  
government. A dedicatory letter to these patrons from  
the editor and an introduction detailing the history of  
mining literature. In the foreword the editor states  
his great debt to Agricola, Ercker, Löhneyss and  
Becher. The text then begins with sections on earth,  
minerals, mountains, and surface soil conditions, this  
volume describes and illustrates the full spectrum of  
practical aspects concerning 17th century mining and  
metallurgy, from surveying and finding lodes to digging  
and fortifying mines with timber to extraction and  
processing of metals, with detailed instructions for the  
various processes. A number of tables provide extensive  
information on smelting techniques and processes.  
Roessler also included a section on the use of divining  
rods, suggesting that the user's own capacity affects the  
rod's results.

Divining rods figure prominently in one of the  
engravings, which shows surveyors overseeing four  
workers, three of whom are following the path of their  
dowrs while the other marks the lines. Twenty-five  
charmingly amateurish, though technologically astute,  
copper engravings by Roessler's grandson, Johann  
Christoph Goldberg, who also served as Roessler's  
posthumous editor for this work, illustrate various  
surveying, mine engineering, mining, smelting, and  
refining techniques, as well as depicting various lode  
formations. An index, a list for the binder of the  
engravings and their locations, and a large glossary of  
mining terminology follow the text.

This is the only published work by Roessler, a  
mining expert and surveyor in the prince of Saxony's  
service, and the inventor of a suspended mining compass  
in 1633.

The plates are numbered but not in the order in  
which they are to be inserted in the text. At the end of  
the LC copy is leaf (unpaged, unsigned; not included in  
page count) with plate placement instructions.

Facsimile reprints, 1978 & 1980: This work was published  
in facsimile in Prague in 1978 by Narodni Techniske

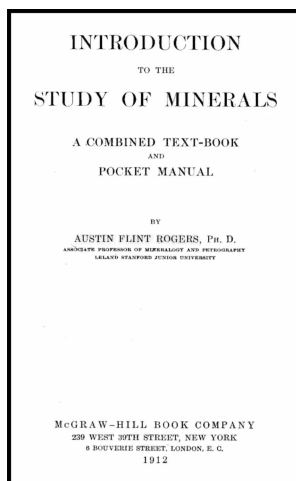
Museum, and in Leipzig in 1980 by Deutscher Verlag für Grundstoffindustrie.

REFERENCES: Adams, *Birth and Development*, 1938: p. 310. • Agricola Bibliographie: ?? • Darmstädter, *Berg-Büchlein*, 1926: p. ?? • Ferchl: p. 450. • Honeyman Sale: VI.2673. • Hoover Collection: no. 688.

**ROGERS, Austin Flint.** (BORN: Lathrop, Missouri, U.S.A., 15 August 1887; DIED: Berkeley, California, U.S.A., 10 March 1957) *American geologist & mineralogist*.

While a high school student, a teacher encouraged Rogers to collect minerals and fossils from the quarries around Kansas City, where he lived. Later, he attended for one year the Missouri School of Mines, before transferring to the University of Kansas, from which he graduated in 1901. He went to Columbia University to study mineralogy under Alfred J. Moses, and received his Ph.D. in 1902. He began his teaching career at Stanford University that same year and continued for forty years. He retired in 1942, but continued his interest in mineralogy, giving numerous lectures on the subject until close to his death.

REFERENCES: ABA: I 1378, 366; II 518, 60-61. • American Men of Science, 6th edition (1938). • *American Mineralogist*: 43 (1958), p. 310-316, portrait. • Internet search. • Sarjeant, *Geologists*, 1980: 3, 1993 & Suppl. 2 (1995), 2, 1029. • WBI.



INTRODUCTION, 1912

**4149. — English, 1912** [First edition].

Introduction | To The | Study Of Minerals | A Combined Text-Book | And | Pocket Manual | By | Austin Flint Rogers, Ph.D. | [...2 lines of titles and memberships...] | McGraw-Hill Book Company | 239 West 39th Street, New York | 6 Bouverie Street, London, E.C. | 1912.

8°: [i]-xx, [1]-522 p., illus.

CONTENTS: [i-ii], Half title page, "Introduction To The | Study Of Minerals," verso publisher's information.; [iii-iv], Title page, verso "Copyright, 1912, by the | McGraw-Hill Book Company."; [v], Dedication, "To my parents..."; [vi], Blank.; [vii]-ix, "Preface."—signed Austin F. Rogers, April 1912.; [x], Blank.; [xi]-xv, "Contents."; [xvi], Blank.; [xvii]-xx, "Select Bibliography."; [1]-488, Text.; [489]-511, "Glossary."; [512], Blank.; [513]-522, "Index."

VERY SCARCE. The educational influence of Dr. Rogers extended far beyond his long career at Stanford University. His textbook, *Introduction to the study of minerals*, written as an introduction to the science, is accurate, concise, informative and was widely used, going through three editions.

The text is divided into eight parts: I. The Form of Minerals (=crystallography; p. 3-102). II. The Physical Properties of Minerals (p. 103-112). III. The Optical Properties of Minerals (p. 113-162). IV. The Chemical Properties of Minerals (p. 163-208). V. The Determination of Minerals (p. 209-252). VI. Description of the Important Minerals (p. 253-446). VII. The Occurrence, Association, and Origin of Minerals (p. 447-461). VIII. The Use of Minerals (p. 462-488). A Glossary and Index conclude the work.

**2nd edition, 1921:** Second, revised edition. New York, 1921. 527 p.

**3rd edition, 1937:** Third edition. New York, 1937. xviii, 626 p., incl. frontispiece, illus., diagrams.

REFERENCES: NUC. • *USGS Library Catalog*.

**ROLFINCK, Werner.**

**4150. — Latin, 1637** [Dissertation].

D.O.M.A. | Disputatio Chimica | Quinta, | De | Fossilibus | In Genere Et In | Specie, De Aqueis Seu Sa- | libus, Communi, Nitro, Ar- | meniaco, Vitriolo. | Publicæ disquisitioni subjecta. | In Academia Jenensi, | Præsiede | Wernero Rolfinck, | [...3 lines of titles and memberships...] | à | Respondente | Godefrido Vogelio | Hayna-Misnico. | Ad diem Junii. | In Auditor. Medicor. horis consuetis. | Typis Ernesti Steinmanni, | [rule] | Anno Clb L CXXXVII.

4°: A-D<sup>4</sup> E<sup>2</sup>; 18ℓ.; [36] p. RARE.

CONTENTS: [2 pgs], Title page, verso blank.; [34 pgs], Text.

REFERENCES: VD17: 39:154684H.



ROMÉ DE L'ISLE

## ROMÉ DE L'ISLE

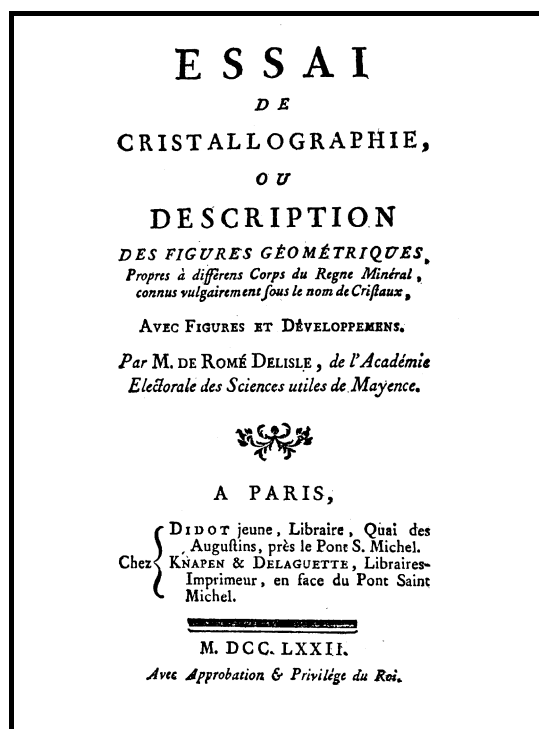
**ROMÉ DE L'ISLE, Jean-Baptiste Louis.** (BORN: Gray, France, 29 August 1736; DIED: Paris, France, 7 March 1790) *French crystallographer & mineralogist.*

Romé de l'Isle received little formal scientific education—his interest in natural history developed during his military service and travel in India and the Orient. In 1764 after his return to France, he was befriended by the mineralogist and chemist B. SAGE, who directed his interest to mineralogy. Romé de l'Isle supported himself through the patronage of several wealthy friends whose collections of minerals, coins, and gems he supervised and cataloged. Although his scientific work became well known outside of France, he never succeeded in breaking into the French scientific establishment. A proposal for his election to membership in the Académie des Sciences failed and he lived to see his own achievements in mineralogy and crystallography overshadowed by the work of R.J. HAÜY.

REFERENCES: ABF: I 908, 401-411. • Beauchamp, *Biographie Moderne*, 1816. • *Biographie Universelle*: 38, 521-3 [by C.S. Weiss]. • DSB: 11, 520-4 [by R. Hooykaas]. • Feller, *Biographie Universelle*, 1851. • *Observations sur la Physique, sur l'Histoire Naturelle et sur les Arts*: 36 (1780), 315-23 [obituary by J.C. Delamétherie]. • Poggendorff: 2, cols. 682-3. • Stouffs, *Inventaire des Papiers du Didot*, 1963. • WBI.

Catalogue Systématique et Raisonné des Curiosités de la Nature et de l'Art, Qui composent le Cabinet de M. Davila, Avec Figures en taille douce, de plusieurs morceaux qui n'avoient point encore été gravés. (3 vols., Paris, 1767).

See: DBvila, Pedro Franco.



ESSAI, 1772

4151. — French, 1772 [First edition].

Essai | De | Cristallographie, | Ou | Description  
| Des Figures Géométriques. | Propres à différens

Corps du Regne Minéral, | connus vulgairement sous le nom de Cristaux. | Avec Figures et Développemens. | Par M. de Romé Delisle, de l'Academie | Electorale des Sciences utiles de Mayence. | [ornament] | A Paris, | [The next 5 lines braced on the left-hand side by "Chez {"}] Didot jeune, Libraire, Quai des | Augustins, près le Pont S. Michel. | Knapen & Delaguette, Libraires— | Imprimeur, en face du Pont Saint | Michel. | [double rule] | M. DCC. LXXII. | Avec Approbation & Privilège du Roi.

4°: a<sup>8</sup> b<sup>8</sup> A-Z<sup>8</sup> 2A-2C<sup>8</sup> 2D<sup>7</sup> (a1 blank); 230ℓ.; [iii]-xxxii, [1]-427, [2], [1] blank p., ten engraved plates (numbered I-X), 2 folding tables. The plates show various crystal forms and diagrams. PAGE SIZE: 242 x 188 mm.

CONTENTS: [iii-iv], Half title page, "Essai | De | Cristallographie," verso "[rule] | Natura Geometriam exercet sub terræ visceribus | mirabili opificio! Encelius De Re Metall. lib. I."; [v-vi], Title page, verso blank; [viii]-viii, Dedication—signed Romé Delisle.; ix-xvi, "Préface."; xvii-xxvii, "Table Alphabétique des princi- | paux Auteurs qui ont écrit sur les Cristaux, ou | qui sont cités dans cet Ouvrage à l'occasion des | Cristaux ..."; xxix-xxx, "Explication des Termes Géométriques | employés dans ces Ouvrage."; xxxi-xxxii, "Distribution | des Cristaux."; [1]-42, "... Discours Préliminaire."; [43]-105, "Première Partie."; [106]-284, "Seconde Partie."; [285]-323, "Troisième Partie."; [324]-381, "Quatrième Partie."; 382-384, "Table des Affinités des Cristaux, suivant M. | le Chevalier Linné, tirée de la XIIe Edition du | Système de la Nature, tome 3, p. 218 & suiv."; 385-390, "Errata."; 391-427, "Table | Des Matieres."; [2 pgs], "Approbation" and "Privilege Du Roi."; [1 pg], Blank; [At end], 2 folding tables and 10 plates numbered I-X.

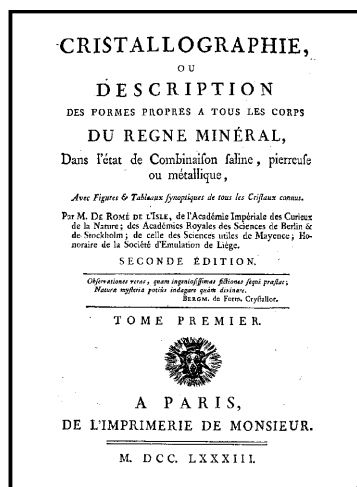
VERY SCARCE. The *Cristallographie* ranks as one of the great contributions to the science of crystals. In it Romé de l'Isle attempted to make a comprehensive classification of crystals. By the time he wrote this volume, he was extremely familiar with the subject, and this work greatly surpassed all previous works in scope and detail. To apply his classification, he adopted a morphological approach in which he attempted to relate the diverse forms of crystals of the same substance. As a general morphological concept he introduced the idea of the "primitive form." All crystals of the same inorganic substance, no matter how different in appearance had a fundamental and common geometrical form—the primitive form—to which their actual crystal shapes related. The justification for this idea was derived from the previous work of CARL LINNEAUS who had tried to expain the genesis of minerals by means of an analogy with the procreation of living creatures, and classified cystals by the similarities of their crystallized forms.

In this first edition of the *Cristallographie*, Romé de l'Isle identifies 110 crystal forms by which minerals crystallize. Grouped under each of these shapes are described the minerals that exhibit similar habit, including the approximate angles between crystal faces. These forms were all derived form a common saline ingrediaent in every mineral that worked at a molecular level. Although he believes that these primitive forms

existed, it is never made clear how they should be defined for any group of crystals. Romé was able to greatly expand upon this idea in the second edition [which see below].

An annotated bibliography compiled by Romé is listed on pages xvii-xxviii.

REFERENCES: *Berlinische Sammlungen*: 9, 414-5. • Burke, *Origins of the Science of Crystals*, 1966: 69-71. • Dana's 7th (Bibliography): 69. • DSB: 11, 520-4 [by R. Hooykaas]. • *Freilich Sale Catalog*: nos. 460-1. • Hoover Collection: no. 691. • Hooykaas, R., "De kristallografie van J.B. de Romé de l'Isle (1783)," *Chemisch Weekblad*, 47 (1951), 848-55: [Comparison between Romé's crystallography and his theories of crystal chemistry.]. • Hooykaas, R., "De oudste kristallografie," *Chemisch Weekblad*, 46 (1950), 438-40. • Hooykaas, R., "De oudste kristallografie-Translated," *Revue d'Histoire des Sciences*, 12 (1959), 182-5. • Hooykaas, R., "Romé de l'Isle en de structuur theorie," *Chemisch Weekblad*, 47 (1951), 909-14. • Hooykaas, *Species Concept in Mineralogy*, 1952: 45-55. • LKG: IX 9. • Marx, *Geschichte der Crystallkunde*, 1825: 120-31. • Mauskopf, *Crystals and Compounds*, 1976: 9-19. • Metzger, *Genèse de la Science des Cristaux*, 1918: 65-75 & 189-92. • Norman Catalog: 2:1847. • Norman Sale Catalog: 3:757. • *Physikalisch-Oekonomische Bibliothek*: 4 (1774), 135-7 & 8 (1778), 393-4. • Wellcome Catalog (Books): 4, 553.



CRISTALLOGRAPHIE, 1783

**4152. 2nd edition, 1783:** *Cristallographie, | Ou | Description | Des Formes Propres A Tous Les Corps | Du Regne Minéral, | Dans l'état de Combinaison saline, pierreuse | ou métallique, | Avec Figures & Tableaux Synoptiques de tous les Cristaux connus. | Par M. De Romé de l'Isle, de l'Académie Impériale des Curieux | [...3 lines of titles and memberships...]* | Seconde Édition. | [rule] | [...2 lines of quotation, signed Torbern Bergman...] | [rule] | Tome Premier [-??]. | [ornament] | A Paris, | De L'Imprimerie De Monsieur. | [double rule] | M. DCC. LXXXIII.

4 vols. [VOL 1] 8<sup>o</sup>: a-b<sup>8</sup> c<sup>4</sup> A-2Q<sup>8</sup>; 332ℓ.; [j]-xxxviii, [2], [1]-623, [1] p.; [VOL 2] 8<sup>o</sup>: π<sup>2</sup> A-2S<sup>8</sup> 2T<sup>2</sup>; 332ℓ.; [4], [1]-659, [1] p.; [VOL 3] 8<sup>o</sup>: π<sup>2</sup> A-2P<sup>8</sup> 2Q<sup>2</sup>; 308ℓ.; [4], [1]-611, [1] p.; [VOL 4] 8<sup>o</sup>: a<sup>8</sup> A-L<sup>3</sup> M-Q<sup>8</sup>; 48ℓ.; [j]-xvi, [1]-80 p., 12 folding plates (bound after a8) and accompanying tables. PAGE SIZE: 196 x 125 mm.

CONTENTS: [Vol 1] [i-ii], Half title page, verso "Se trouve | Chez ..."; [iii-iv], Title page, verso blank.; [v]-x, Dedication to the Royal Prussian Academy of Science, signed Romé de L'Isle.; [xi]-xxxviii, "Préface."; [2 pgs], "Approbation" and "Privilege Du Roi."; [1]-103,

"Introduction."; [104]-425, "Première Partie. | Des Cristaux Salins."; [426]-623, "Seconde Partie. | Des Cristaux Pierreux."; [1 pg], Blank.

[Vol 2] [i-ii], Half title page, verso "Se trouve | Chez ..."; [iii-iv], Title page, verso blank.; [1]-522, Continuation of section on stones from volume one.; [523]-659, "Appendice | A La | Seconde Partie."; [1 pg], Blank.

[Vol 3] [i-ii], Half title page, verso "Se trouve | Chez ..."; [iii-iv], Title page, verso blank.; [1]-490, "... Troisième Partie. | Des Cristaux Métalliques."; [491]-563, "Table Alphabétique | Des Matieres | Contenus dans les quatre Volumes de | la Cristallographie."; [564]-609, "Table Alphabétique | des | Principaux Auteurs."; 610-611, "Errata."—to all volumes.; [1 pg], Blank.

[Vol 4] [i-ii], Title page, verso blank.; iii-iv, "Avis Au Relieur."; [v]-xvi, "Table Synoptique | Des | Trois Premiers Volumes | De La Cristallographie."; [Plates and tables.]; [1]-34, "Explication | Des | Figures Géométriques | De la Planche VIII."; 35-48, "Tableau | Des Principaux Angles (I) | Que Présentent Les Cristaux."; 49-80, "Noms | Des Substances Salines, | pierreuses ou métalliques, auxquelles | ..."—being a series of tables listing the names of the minerals figured on the plates.

VERY SCARCE. Contains the first general announcement of the fundamental law of quantitative crystallography. This is a revised and greatly expanded edition of *Essai de Cristallographie* (Paris, 1772), and although the title page calls this publication a second edition, it has been so greatly enlarged, it could rightly be considered as a separate work. By the time of its publication, Romé had made crucial advances towards a quantitative crystallography. This had been made possible by the recent invention of the contact goniometer<sup>[1]</sup> by his student, Arnould Carangeot [see note below]. This simple device used for measuring crystalline angular dimensions, led him to generally enunciate for the first time, the fundamental quantitative law of crystallography—the law of constant interfacial angles.

Previously, HENCKEL, BARTHOLIN and STENO had observed this constant in pyrite, calcite and quartz, respectively; however, Romé was the first to state it as a general truism of the physical world. It meant that regardless of the dissimilar appearance of crystals, specimens of the same species would always show identical angle measurements between common crystal faces. In addition, this discovery provided mineralogy with the first exact measurement that could be published without interpretation, and thus be disseminated to other researchers. To this purpose, this edition increases to over 450 the number of possible crystal forms, and providing for each accurate angle measurements between different crystal surfaces made with the goniometer. Armed with his law, he was able to somewhat elaborate on his definition of the primitive form and how it related to the external crystal, but Romé never made the theoretical leap that allowed HAÜY to spin an elegant theory from essentially the same information. None the less, Romé captured information from his crystallographical laws and together with his broadened concept of the relationship between crystal form and chemical composition, he made the *Cristallographie* into the finest mineralogical treatise written to the time.

Volume 1, part 1: Salts, acids, alkalines, bases and combinations.; Volume 1, part 2: Crystallization of stones. i.e. gypsum, selenite, calcite. Volume 2: Quartz, tourmaline, feldspar, gems, etc. an appendix deals with rocks and other aggregates. Volume 3: Metals = Zinc, iron, cobalt, lead, copper, gold, silver. An alphabetical table of contents, bibliography.

Notes: [1] The scientific world first learned of the contact goniometer on 11 April 1782, when Carangeot presented the device to a group of scientists assembled by Pahin de la Blancherie. The first scientific paper describing this new tool of crystallography appeared as: "Un goniomètre ou mesure-angle" in *Nouvelles de la République des Lettres et des Arts*, no. 14 (17 April 1782),



## ROMÉ DE L'ISLE

p. 111. Other articles soon appeared, the best of which is, "Goniomètre, ou mesure-angle," in *Observations sur la Physique, sur l'Histoire Naturelle et sur les Arts*, 22 (March, 1783), pp. 193-7. For a full history of the goniometer, see: *Mineralogical Record*, 29 (Sept./Oct., 1998), no. 5.

REFERENCES: Cole, *Chemical Literature*, 1988: no. 1124. • Dana's 7th (Bibliography): 69. • *Freilich Sale Catalog*: no. 462. • Hooykaas, R., "De kristallografie van J.B. de Romé de l'Isle (1783)," *Chemisch Weekblad*, 47 (1951), 848-55. • LKG: IX 8. • Sinkankas, *Gemology Bibliography*, 1993: no. ??.



VERSUCH, 1777

4153. German transl., 1777: Versuch | einer | Crystallographie | oder | Beschreibung | der, | verschiedenen, unter dem Nahmen der Crystalle | bekannten, Körpern des Mineralreichs eigenen, | geometrischen Figuren, | mit Kupfern und Auslegungs- | Planen | durch den Herrn | de Romé Delisle | der Churfürstl. Mainz. Akademie nütz. Wissenschaften Mitglied. | [rule] | Aus dem Französischen übersezt | mit Anmerkungen und Zusätzen. | [double rule] | Nebst | Hn. Hills Spatherzeugung und Hn. Bergmanns Abhandlung | von Spathgestalten. | Aus dem Englischen übersezt | von | Christian Ehrenfried Weigel | [...3 lines of titles and memberships...] | [ornate rule] | Greifswald, | gedruckt und verlegt von Anton Ferdinand Röse. 1777.

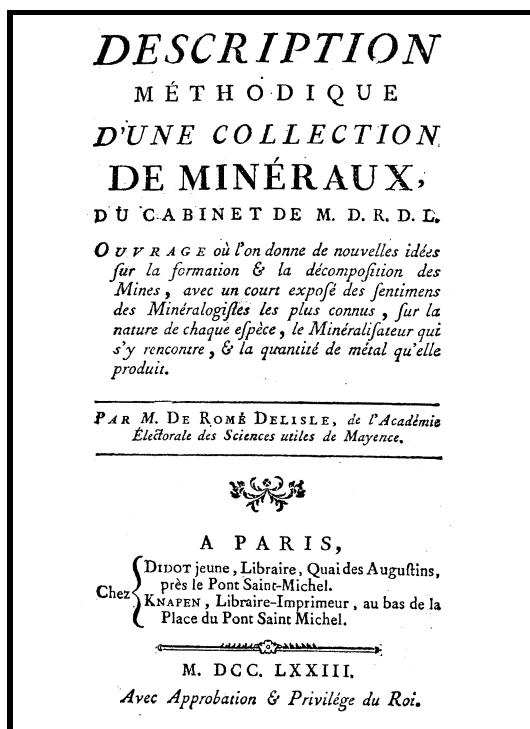
4°: a-c<sup>4</sup> d<sup>2</sup> A-Kkk<sup>4</sup> Ll<sup>2</sup>; 240ℓ.; [i]-xxviii, [1]-450, [2] p., 12 engraved plates, 7 folding tables. PAGE SIZE: 206 x 140 mm.

CONTENTS: [i-ii], Title page, verso "Natura Geometrica ..."; [iii]-vi, "Vorrede | des Uebersetzers."; [viii]-x, "Vorrede des Verfassers."; xi-xxiv, "Alphabetisches Verzeichniß."; xxv-xxvi, "Erklärung | der in diesem Werke gebrauchten geometrischen | Kunstwörter."; xxvii-xxviii, "Eintheilung | der Crystallen."; [1], Sectional title page, "Versuch | einer | Crystallographie | oder | Beschreibung | ..."; [2], Blank.; [3]-25, "Vorbericht | Von den Crystallen überhaupt."; 26-390, Text.; [391]-437, "Herrn J. Hill | ... | Spatherzeugung | ..."; 438-442, "Verschiedene | vom Spath erzeugte | Crystallen=Gestalten, | ..."; 443-450, "Register."; [1 pg], "Verbesserungen."; [1 pg], Blank.

VERY SCARCE. Translation by CHRISTIAN EHRENFRIED WEIGEL from *Essai de Cristallographie* (1st ed., Paris, 1772). It contains extensive notes added by the translator, particularly where chemistry is involved. This work also contains translations of two monographs concerning various types of spars. The first is JOHN HILL's *Sparthographia* (London, 1772). The second is TORBERN OLAF BERGMANN'S

"Variæ crystallorum formæ a Spato ortæ," which originally appeared in *Nova Acta Upsala* (1773).

REFERENCES: *Allgemeines Verzeichniß neuer Bucher*: 2 (1777), 431-2. • *Freilich Sale Catalog*: no. 463. • LKG: IX 9a. • Metzger, *Genèse de la Science des Cristaux*, 1918. • *Physikalisch-Oekonomische Bibliothek*: 8, (1778), 393-5.



DESCRIPTION, 1773

4154. — French, 1773 [Collection catalog].

Description | Méthodique | D'Une Collection | De Minéraux, | Du Cabinet M.D.R.D.L. | Ouvrage où l'on donne de nouvelles idées | sur la formation & la décomposition des | Mines, avec un court exposé des sentimens | des Minéralogistes les plus connus, sur la | nature de chaque espèce, le Minéralisateur qui | s'y rencontre, & la quantité de métal qu'elle | produit. | [rule] | Par M. De Romé Delisle, de l'Académie | Électorale des Sciences utiles de Mayence. | [rule] | [ornament] | A Paris, | [The next 4 lines are braced on the left-hand side by "Chez {}"] Didot jeune, Librarire, Quai des Augustins, | près le Pont Saint-Michel. | Knapen, Libraire-Imprimeur, au bas de la | Place du Pont Saint Michel. | [ornate rule] | M. DCC. LXXIII. | Avec Approbation & Privilège du Roi.

8°: a-b<sup>8</sup> A-T<sup>8</sup>; 169ℓ.; [i]-xxxij, [1]-299, [5] p., engraved frontispiece. PAGE SIZE: 200 x 124 mm.

CONTENTS: [i-ii], Half title page, "Description | Méthodique | D'une Collection | De Minéraux, | Du

Cabinet De M.D.R.D.L.,” verso blank.; [Frontispiece].; [iii-iv], Title page, verso blank.; [v]-xix, “Préface.”; xx-xxv, Authorities list.; xxvj-xxxij, “Table Synoptique | Des Minéraux.”; [1]-296, Text.; 297-299, “Note relative à la page 169, sur | le Plomb vierge.”; [3 pgs], “Table Alphabétique.”; [2 pgs], “Approbation” and “Privilege.”

PLATES: The engraved frontispiece shows the god and goddess with 2 cherubs. It is signed at the base: “C. Monnel inv. del. & Aug. de St. Aubin sculp. 1773.” Text at the base reads: “Usus & impigræ simul experientia mentis | Paulatim docuit pedetentim progredientes. | Lucret. de rer. nat. lib. V.”

VERY SCARCE. In this collection catalog, the famous French crystallographer fully describes about 750 metallic minerals from his own cabinet. Included are specimens consisting of pure metals as well as natural alloys and combinations with sulfur. Basic division is based upon the principle metals and semimetals contained in the described specimens and include gold, silver, copper, iron, tin, lead, mercury, antimony, zinc, bismuth, cobalt, arsenic and sulfur. Under each of these headings, the specimens are divided based upon their form and chemical composition. For each item described, notes on the origin, associated minerals, locality, size and the estimated weight of contained precious metals is presented. The catalog is well referenced, and if a particular specimen was given to Romé, the supplier's name is included in the description.

During his lifetime, Romé accumulated a large collection of minerals and crystals. Following his death in 1790, it was purchased by François Gillet de Laumont [1747-1834], French Inspector General of Mines and one of the greatest mineral collectors of his time. In 1835, De Laumont's collection was purchased by the French government, where today its remains are preserved in Paris at the Sorbonne.

REFERENCES: *Freilich Sale Catalog*: no. 464. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 272-3. • Hoover Collection: no. 690. • *Jenaische gelehrte Zeitungen*: 1774, p. 760. • Laissus, *Cabinets d'Histoire Naturelle*, 1964: p. 669 [“un véritable manuel de minéralogie”]. • LKG: XV 22a. • Metzger, *Genèse de la Science des Cristaux*, 1918. • Wilson, *History of Mineral Collecting*, 1994.

#### 4155. — French, 1774 [Collection catalog].

Catalogue | Des Curiosités | Naturelles, | Qui Composent Le Cabinet | de M. de \*\*\* | Et dont la Vente se fera à Paris, rue de | la Sourdiere, le Lundi 4 Juillet 1774 | & jours suivans, trois heures précises de | relevée. | [ornament] | A Paris, | Chez Claude Hérisant, Imprimeur- | Libraire, rue neuve Notre-Dame, à la | Croix d'Or & aux trois Vertus. | [double rule] | M. DCC. LXXIV.

8°: [2], iv, [vii]-viii, 15, [1], 295 p.

VERY RARE. Catalog of the Varennes de Béost [see note below] collection of minerals, shells and other natural history items which was sold by the collector's heirs. The sale contained 1430 lots. In the advertisement, Romé provides a brief history of the collection, indictating that it was particularly well represented in specimens from England, Germany,

## CATALOGUE

### DES CURIOSITÉS

#### NATURELLES,

#### QUI COMPOSENT LE CABINET

DE M. DE \*\*\*

Et dont la Vente se fera à Paris, rue de  
la Sourdiere, le Lundi 4 Juillet 1774  
& jours suivans, trois heures précises de  
relevée.



A PARIS,

Chez CLAUDE HÉRISANT, Imprimeur-  
Libraire, rue neuve Notre-Dame, à la  
Croix d'Or & aux trois Vertus.

M. DCC. LXXIV.

CATALOGUE, 1774

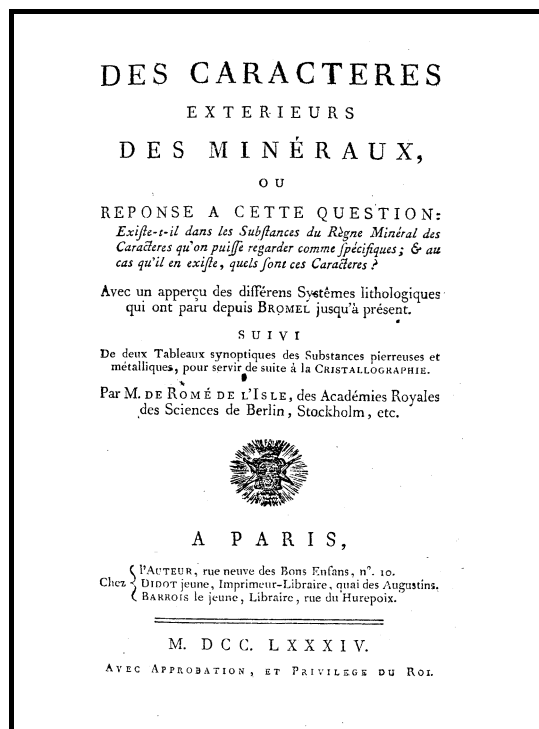
Switzerland and Italy.

**Claude-March-Antoine Varennes de Béost.** (BORN: 1722; DIED: Paris, France?, 1788) *French bureaucrat.* Béost was the French secretary of State for Burgundy and Receiver General of Finances for Brittany. His natural history cabinet was well-known in Dijon as early as 1757, and was prominent in Paris by 1767. Already rich in minerals, the collection was greatly augmented by the incorporation of SAVALETTE DE BUCHELAY's collection in 1764, and part of the chemist Jean Hellot's [1685-1766] collection in 1766.

REFERENCES: BL: [955.d.26.]. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 273. • Jonathan Hill, Bookseller: cat. 20, no. 146. • NUC. • Wilson, *History of Mineral Collecting*, 1994: 52 & 196. (*Varennes de Béost*) Wilson, *History of Mineral Collecting*, 1994: 52 & 196.

#### 4156. — French, 1784.

Des Caracteres | Exterieurs | Des Minéraux, | Ou | Response A Cette Question: | Existe-t-il dans les Substances du Règne Minéral des | Caracteres qu'on puisse regarder comme spécifiques; & au | cas qu'il en existe, quels sont ces Characters ? | Avec un aperçu des différens Systèmes lithologiques | qui ont paru depuis Bromel jusqu'à présent. | Suivi | De deux Tableaux synoptiques des Substances pierreuses et | métalliques, pour servir de suite à la Cristallographie. | Par M. de Romé de l'Isle, des Académies Royales | des Sciences de Berlin, Stockholm, etc. | [ornament] | A Paris, | [The next 3 lines are braced on the left-hand side by, "Chez {"] l'Auteur, rue neuve des Bons Ensans,



CARACTÈRES EXTÉRIEURS DES MINÉRAUX, 1784

n°. 10. | Didot jeune, Imprimeur-Libraire, quai des Augustins. | Barrois le jeune, Libraire, rue du Hurepoix. | [double rule] M. DCC. LXXXIV. | Avec Approbation, et Privilege du Roi.

8°: [4], 82 p., 3 large folding tables.

VERY SCARCE. Brought out as a supplement to his *Cristallographie*, Romé de L'Isle in this work discusses the importance of external characteristics in mineral identification. The author expresses his opinion that any mineral can be uniquely identified by determining its crystal form, its density and its hardness. It was written to rebut DAUBENTON, who at the time was giving a series of popular lectures on mineralogical subjects. In Daubenton's mineralogical theory, since mineral species did not organically propagate, there existed no mechanism for specific characteristics to be passed from one generation to another; therefore, mineral species would never be uniquely identifiable, because they could not exist. When Romé published this volume he was explicitly stating a principal he had implied in the two editions of his great crystallographic work. Namely, that each mineral species was fixed and distinct from every other species. Romé chose as his defining characteristic the constancy of chemical composition, arguing that over time, the invariability of the laws of chemical affinity would be as accurate in determining mineral species as reproduction was in living organisms.

REFERENCES: *Freilich Sale Catalog*: no. 465. • Hoover Collection: no. 689. • LKG: IX 10b. • Mauskopf, *Crystals*

and *Compounds*, 1976: 17. • Metzger, *Genèse de la Science des Cristaux*, 1918.

#### Forster Sale Catalogs

4157. — French, 1769 [Sale catalog].

Catalogue raisonne d'une collection choisie de minéraux, cristallisations, madrepores, coquilles & autres curiosites de la nature & de l'art. La Vente s'en fera le Mardi 4 Avril 1769 & jours suivans .. au grand Hotel de Berri, ... Paris, Chez Delalain, 1769.

8°: v, 128, 6 p. PAGE SIZE: About 200 x ?? mm. each.

VERY RARE. "La vente s'en sera le mardi 4 avril 1769 & jours suivans, trois heures précises de relevée, au grand hôtel de Berri, rue S. Thomas du Louvre." Lists 990 items.

REFERENCES: BL: [956.c.29.(1.)]. • LKG: XV 21\*. • Metzger, *Genèse de la Science des Cristaux*, 1918. • NUC: 752, 39 [NR 0015347]. • Wilson, *History of Mineral Collecting*, 1994: 52 & 210 [reproduces the title page].

4158. — French, 1772 [Sale catalog].

Catalogue raisonne d'une collection choisie de minéraux, cristallisations, coquilles, Petrifications & autres objets d'histoire naturelle. La Vente sten fera le Lundi 27 Avril 1772, & jours suivans ... a l'Hotel de Warsovie, ... Paris, Chez Didot, 1772.

8°: [2], viii, 269, [2] p.

VERY RARE. Auction sale catalog of mineralogical, fossil and shell specimens sold by Jacob Forster held in Paris on April 27th, 1772. The catalog lists 1762 lots.

REFERENCES: BL: [956.h.31.].

4159. — French, 1780 [Sale catalog].

Catalogue raisonné d'une collection de minéraux, cristallisations, pétrifications, coquilles, et autres objets d'histoire naturelle : dont la vente se sera le lundi 21 février 1780, & jours suivans, à l'Hôtel d'Aligre, rue Saint-Honoré: la feuille de distribution des différens articles qui composent ce catalogue, se délivra quelques jours avant la vente. A Paris, Chez Didot jeune ..., 1780.

8°: a<sup>6</sup> A-N<sup>8</sup> O<sup>2</sup>; 116ℓ.; [2], x, 220 p.

VERY RARE. Auction sale catalog of mineralogical, fossil and shell specimens sold by Jacob Forster held in Paris on February 21, 1780. The catalog lists ?? lots.

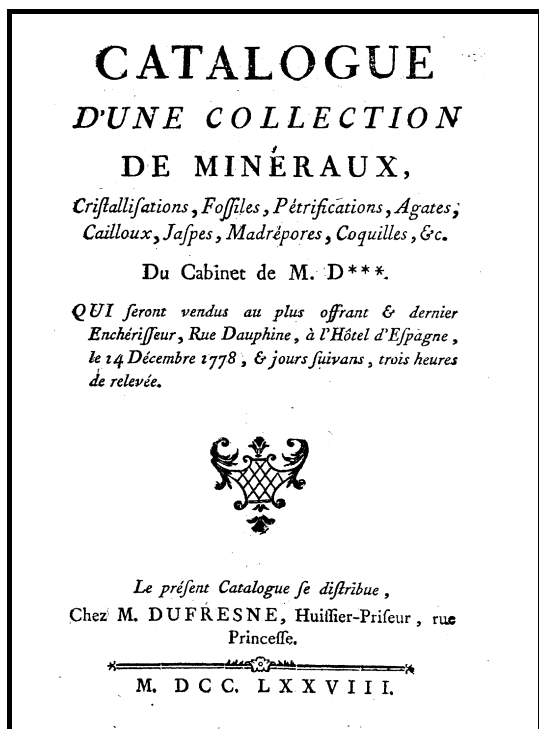
REFERENCES: BL: [956.c.29.(2.)].

4160. — French, 1783 [Sale catalog].

Catalogue raisonne d'une collection de minéraux, cristallisations, petrifications, coquilles, et objets d'histoire naturelle; Dont fera le Lundi 17 Fevrier 1783, ... Paris, Chez Didot, 1783.

8°:

VERY RARE. Auction sale catalog of mineralogical, fossil and shell specimens sold by Jacob Forster held in Paris on February 17, 1783. The catalog lists ?? lots.



CATALOGUE, 1778

REFERENCES: BL.

**4161. — French, 1778.**

Catalogue | D'Une Collection | De Minéraux,  
 | Cristallisations, Fossiles, Pétrifications, Agates,  
 | Cailloux, Jaspes, Madrépores, Coquilles, &c. | Du  
 Cabinet de M. D\*\*\*. | Qui seront vendus au plus  
 offrant & dernier | Enchérisseur, Rue Dauphine, à  
 l'Hôtel d'Espagne, | le 14 Decembre 1778, & jours  
 suivans, trois heures | de relevée. | [ornament] | Le  
 présent Catalogue se distribue, | Chez M. Dufresne,  
 Huissier-Priseur, rue | Princesse. | [ornate rule] |  
 M. DCC. LXXVIII.

8°: A-C<sup>8</sup> D<sup>2</sup>; 26ℓ.; [1]-52 p. PAGE SIZE: 186 x 114 mm.

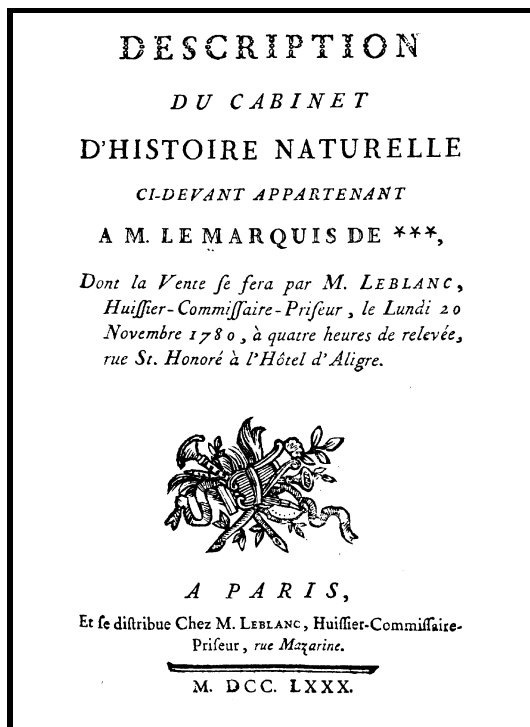
CONTENTS: [1-2], Title page, verso blank.; [3]-48, Text.; 49-52, "Feuille De Distribution | Des objects qui sernont vendus les jours margués | ci-après.

VERY RARE. Catalog prepared by Romé de l'Isle of a mineral and shell collection that was sold on the 14 th of December, 1778 at the Hôtel d'Espagne in Paris. The descriptions indicate that the collection consisted of about 2,000 mineral specimens mostly metalliferous in nature and 1,500 corals, shells and fossils. The owner of the collection remains a mystery; however, it is recorded that the geologist Jean Démeest [see note below] apparently had a large mineral collection, and this might be the sale catalog of his cabinet.

**Jean Démeest.** (BORN: 1743; DIED: Liège, Belgium, 20 August 1783) *Belgian physician, geologist & mineralogist.*

Démeest was a medical doctor, principally a surgeon to the Army troops of the Bishop-Prince of Liège. His intensive study of chemistry gained him membership in many learned societies.

REFERENCES: NUC: 752, 39 [NR 0015347]. • Wilson, *History of Mineral Collecting*, 1994: 52 & 210. (Démeest) ABF: I 300, 211-212. • BAB: I 182, 254-263 / 461, 292. • *Biographie Universelle*: 11, 28. • Laissus, *Cabinets d'Histoire Naturelle*, 1964. • *Nouvelle Biographie Générale* (Hoefer): 13, 527. • Poggendorff: 1, col. 548. • Stouffs, *Inventaire des Papiers du Didot*, 1963. • WBI.



DESCRIPTION DU CABINET (GOUFFIER), 1780

**4162. — French, 1780 [Sale catalog].**

Description | Du Cabinet | D'Histoire Naturelle |  
 Ci-Devant Apartenant | A M. Le Marquis De \*\*\*,  
 | Dont la Vente se fera par M. Leblanc, | Huissier-  
 Commissaire-Priseur, le Lundi 20 | Novembre 1780,  
 à quatre heures de relevée, | rue St. Honoré à  
 l'Hôtel d'Aligre. | [ornament] | A Paris, | Et se  
 distribue Chez M. Leblanc, Huissier-Commissaire-  
 | Priseur, rue Mazarine. | [double rule] | M. DCC.  
 LXXX.

8°: π<sup>2</sup> A-K<sup>8</sup> L<sup>2</sup>; 84ℓ.; [i]-iv, [1]-164 p. PAGE SIZE: 194 x 118 mm.

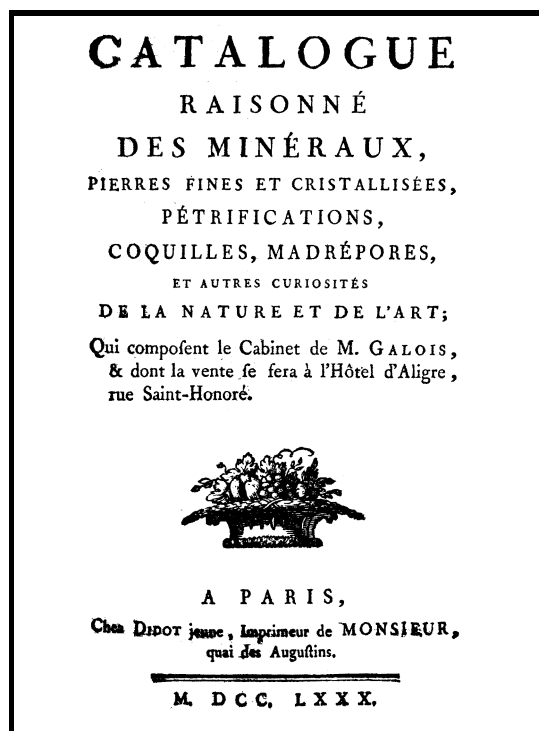
CONTENTS: [i-ii], Title page, verso blank.; iij-iv, "Advertisement."; [1]-164, Text.

RARE. Auction sale catalog of the natural history collection of the Marquis de Gouffier, which contained a significant mineralogical component (pp. 1-98). The collection had numerous mineral specimens

## ROME

and crystallizations. Specimens were from worldwide in nature with many from Asia and South and North America, as well as the expected European localities. The sale occurred on November 20th, 1780 at the Hôtel d'Aligre. Although the title page does not state it, Gouffier's name is invoked on the first page of the catalog.

REFERENCES: Wilson, *History of Mineral Collecting*, 1994: 52, 173 & 213.



CATALOGUE RAISONNÉ (GALLOIS), 1780

### 4163. — French, 1780 [Collection catalog].

Catalogue | Raisonné | Des Minéraux, | Pierres Fines Et Cristallisées, | Pétrifications, | Coquilles, Madrépores, | Et Autres Curiosités | De La Nature De L'Art; | Qui composent le Cabinet de M. Galois, | & dont la vente se fera à l'Hôtel d'Aligre, | rue Saint-Honoré. | [ornament] | A Paris, | Chez Didot jeune, Imprimeur de Monsieur, | quai des Augustins. | [double rule] | M. DCC. LXXX.

8°: a<sup>4</sup> A-L<sup>8</sup> M<sup>6</sup>; 98ℓ.; [i]-viii, [1]-188 p. PAGE SIZE: 194 x 116 mm.

CONTENTS: [i-ii], Title page, verso blank.; iii-vj, "Avertissement."; [vii]-viii, "Table."; [1]-188, Text.

RARE. Catalogue of the Gallois mineral collection. Gallois had previously acquired the natural history cabinet of a Mr. Bellanger, director of a tobacco company in Paris. To this he added other specimens, particularly minerals, precious stones, and crystallized specimens. In this work, Romé de l'Isle catalogued

1647 items, presumably for a sale at auction. The first 109 pages list specimens of mineralogical interest and include suites of native gold, silver, and copper, as well as minerals containing lead, tin, iron, mercury, antimony, pyrites, petrifications, crystallized calcite and quartz, agates, jaspers, figured stones and precious and semiprecious stones.

An earlier edition of the catalog probably not compiled by Romé de l'Isle was published in 1773 [which see entry under Gallois].

REFERENCES: Wilson, *History of Mineral Collecting*, 1994: 212.

Manuel cristallographie, ou abrégé de la cristallographie de M. Romé de l'Isle. Avec une méthode facile pour connoître les différentes cristallisations des mixtes qui composent un cabinet de minéralogie, aidé par une collection de Poliédre dont cet ouvrage est aussi une explication ... (Paris, 1792).

See: Des Fontaines, Swebach (réné Louiche).

### ROME, Italy. Museo Kircheriano.

Musaeum Kircherianum; sive, Musaeum a p. Athanasio Kircherio in Collegio romano Societatis Jesu, jam pridem incoceptum nuper restitutum, auctum, descriptum, & iconibus illustratum a p. Philippo Bonanni. (Romæ, 1709).

See: Buonanni (bonanni), Filippo.

### ROQUETTE-PINTO, Edgard. (BORN: 1884; DIED: 1954) Brazilian anthropologist.

REFERENCES: ABE: II 793, 289-292. • WBI. • Who's who in Latin America: p. ??.

### 4164. — Portuguese, 1918 [First edition].

Elementos de Mineralogia (Applicada ao Brasil) por E. Roquette-Pinto ... Rio de Janeiro, F. Alves & Cia, 1918.

8°: 212, [2] p. illus., diagrams. A textbook of mineralogical science giving the important elements of the study. Written for the Brazilian school system, the author has placed a special emphasis on those mineral species found in Brazil, making this one of the few large works on the mineralogy of that significant locality. PAGE SIZE: 110 x 170 mm. RARE.

REFERENCES: NUC.



ROSE

**ROSE, Gustav.** (BORN: Berlin, Germany, 18 March 1798; DIED: Berlin, Germany, 15 July 1873) *German crystallographer & mineralogist.*

Rose was born into a family with a strong tradition in science. His grandfather, Valentin Rose the elder, invented the low-melting alloy still called Rose's metal. His father, Valentine the younger made original contributions to procedures in inorganic chemical analysis, and his brother Heinrich was a famous chemist in his own right. In 1815, at the age of only seventeen, Gustav with his brothers fought in the campaign against Napoleon. The following year, he became an apprentice at a mine in Silesia, but left due to illness. Returning to Berlin, he began studying mineralogy under C.S. WEISS. He graduated from the University of Berlin in 1820, and traveled to Stockholm to work in the laboratory of J.J. BERZELIUS. Returning to Germany in 1823, he began his lifetime career at the University of Berlin becoming professor extraordinary in 1826 and professor ordinary in 1839. In 1856, Rose succeeded Weiss as director of the Royal Mineralogical Museum. Together with F.H.A. VON HUMBOLDT, E. MITSCHERLICH and others, he founded in 1848 the Deutsche Geologische Gesellschaft. The mineral "Roselite" was named in his honor by A. LÉVY in 1824.

REFERENCES: ADB: 29, 175. • *Annalen der Physik*: 150 (1873), 647-52. • Barr, *Index to Biographical Fragments*, 1973: 223. • Cleavelly, *World Palaeontological Collections*, 1983: 249. • DBA: I 1054, 135-138; II 1094, 226-233. • Drugulin, *Sechstausend Portraits*, 1863: no. 4582. • DSB: 11, 539-40 [by A. Pabst]. • Lambrecht & Quenstedt, *Catalogus*, 1938: 367. • Poggendorff: 2, cols. 692-4 & 3, 1141-2. • Sarjeant, *Geologists*, 1980: 3, 2001. • Schaedler, *Biographisch Handwörterbuch*, 1891: 107. • WBI. • *World Who's Who in Science*: 1443. • *Zeitschrift der Deutschen geologischen Gesellschaft*: 25 (1873), i-xix.

**4165. Dissertation, 1820:** De sphenis atque Titanitæ Systematæ Crystallino ... publice defendet D.IX.M. Decembris MDCCCXX ... Gustav Rose ... Accedunt tabulæ æneæ tres ... [Berolini] Formis Starckianis [1820]. 8°: [4], [1]-26 p., 3 plates.

RARE. Rose's dissertation, presented at the University of Kiel in December 1820. This is the first work on crystal morphology of a mineral species based on accurate measurements with a reflecting goniometer. In it Rose established the identity of sphene and titanite.

REFERENCES: DSB: 11, 539 [by A. Pabst]. • NUC: 504, 109-10 [NR 0421776].

### Elemente der Krystallographie

**4166. — German, 1833** [First edition].

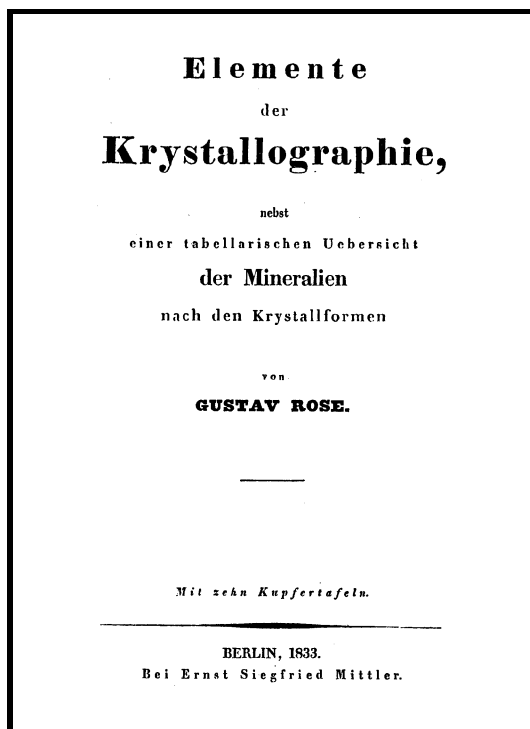
Elemente | der | Krystallographie, | nebst | einer tabellarischen Uebersicht | der Mineralien | nach den Krystallformen | von | Gustav Rose. | [rule] | Mit zehn Kupfertafeln. | [tapered rule] | Berlin, 1833. | Bei Ernst Siegfried Mittler.

2 vols. [Text] 8°: vi, 158 (i.e., 173), [1] p.; [Atlas] 8°: [1]-11 p., [10] double page plates).

RARE. Presents the latest advances of the science at the time. Used as a textbook. Rose was an expert in the use of the reflecting goniometer and the results of his research are contained in this work. The first section provides a general overview of the science including definitions. This is followed by discussions of the six divisions of the crystallographic system.

REFERENCES: Groth, *Entwicklungsgeschichte*, 1926: 154-5. • NUC: 504, 109-10 [NR 0421778].

**4167. 2nd edition, 1838:** Elemente | der | Krystallographie, | nebst | einer tabellarischen | Uebersicht der Mineralien | nach den Krystallformen | von | Gustav Rose. | [rule] |



ELEMENTE DER KRYSTALLOGRAPHIE, 1833

Zweite Auflage. | Mit zehn Kupfertafeln. | [ornate rule] | Berlin, 1838. | Bei Ernst Siegfried Mittler.

[TITLE TO THE ATLAS READS:]

Kupfertafeln | zu | den Elementen | der | Krystallographie | von | Gustav Rose.

2 vols. [Text] 8°: π<sup>6</sup> 1-118; ??ℓ.; [i]-xii, [1]-175, [1] p. [Atlas] 8°: [20] p., 10 plates. PAGE SIZE: 200 x 120 mm. VERY SCARCE.

CONTENTS: [Text] [i-ii], Title page, verso blank.; [iii], "Vorrede zur ersten Auflage."—dated 2 February 1833.; [iv], Blank.; [v]-viii, "Vorrede zur zweiten Auflage."—signed Gustav Rose, 16 June 1838.; [ix]-xii, "Inhalt.;" [1]-152, Text.; [153], "Tableearische | Uebersicht der Mineralien nach den | Krystallformen.;" [154], Blank.; [155]-175, Text.; [1 pg], Blank.

[Atlas] [2 pgs], Title page, verso blank.; [18 pgs], Descriptive text accompanying the plates.

REFERENCES: Dana's 7th (Bibliography): 79. • NUC: 504, 109-10 [NR 0421779].

**4168. 3rd edition, 1873-6:** Gustav Rose's | Elemente der Krystallographie. | [wavy rule] | Dritte Auflage | neu bearbeitet und vermehrt | von | Alexander Sadebeck. | [ornament] | Mit neun lithographirten Doppeltafeln. | [double rule] | Berlin, 1873. | Ernst Siegfried Mittler und Sohn, | Königliche Hofbuchhandlung. | Kochstrasse 69.

[TITLE PAGES TO VOLUME TWO READ:]

Rose-Sadebeck's | Elemente der Krystallographie. | [wavy rule] | Zweiter Band. | Angewandte Krystallographie | von | A. Sadebeck. | [ornament] | [double rule] | Berlin, 1876. | Ernst Siegfried Mittler und Sohn, | Königliche Hofbuchhandlung. | Kochstrasse 69, 70.

[NEXT TITLE PAGE OF VOLUME TWO READS:]

Angewandte Krystallographie, | (Ausbildung der Krystalle, Zwillingsbildung, | Krysstallotektonik), | nebst einem Anhang über Zonenlehre | von | Alexander Sadebeck. | [ornament] | Mit 23 lithographirten Tafeln. | [double rule] | Berlin, 1876. | Ernst Siegfried Mittler und

## ROSE

Sohn, | Königliche Hofbuchhandlung. | Kochstrasse 69, 70.

2 vols. [VOL 1: 1873] 8°:  $\pi^5$  1-11<sup>8</sup> 12<sup>3</sup>; ?? $\ell$ .; [i]-ix, [1]-181, [1] p., 9 folding lithographic plates (num. I-IX showing crystal diagrams and signed C. Laue). [VOL 2: 1876] 8°:  $\pi^8$  1-17<sup>8</sup> 18<sup>6</sup>; ?? $\ell$ .; [i]-xv, [1], [1]-284 p., 12 folding plates (num. I-XII). PAGE SIZE: 222 x 140 mm.

CONTENTS: [Vol 1] [i-ii], Title page, verso "Mit Vorbehalt des Uebersetzungsrechts."; [iii]-vi, "Vorrede" and "Nachruf."; [vii]-ix, "Inhalt."; [1 pg], Blank.; [1]-149, Text.; [150], Blank.; [151], "Tabellarische | Uebersicht der Mineralien | Nach den Krystallisationssystemen."; [152], Blank.; [153], Introduction.; 154-160, "Uebersicht der Mineralien nach den Krystallisationssystemen."; [161]-181, "Erklärung der Tafeln."; [1 pg], Blank.; [At end], 9 folding lithographic plates.

[Vol 2] [i-ii], Blank, verso title page one.; [iii-iv], Title page two, verso blank.; [v]-vii, "Vorrede."—signed A. Sadebeck, April 1876.; [viii], Blank.; [ix]-xv, "Inhalts-Verzeichniss."; [1 pg], Blank.; [1]-272, Text.; [273]-284, "Erklärung der Tafeln."; [At end], 12 folding lithographic plates.

RARE. After Rose's death, this edition was completed by Alexander Sadebeck [see note below]. It is an authoritative work in crystallography providing in the first volume material covered in the previous editions of Rose's *Elements der Krystallographie*. However, with the addition of the second volume, Sadebeck is able to include a great deal of new material on the theoretical formation of crystals, descriptions of twinning in each of the six crystallographic classes, and crystal zoning that had never been treated by Rose.

**Alexander Sadebeck.** (BORN: Berlin, Germany, 26 June 1843; DIED: Hamburg, Germany, 9 December 1879) *German mineralogist, crystallographer & stratigrapher*. In 1865, Sadebeck received his Ph.D. from the University of Berlin. In 1872, he became professor ordinary of mineralogy and geology at the University of Kiel.

REFERENCES: BMC. • NUC: 504, 109-10 [NR 0421780]. (Sadebeck) ADB: 30, 163-4. • *American Journal of Science*: 3rd Series, 19 (1880), 168. • Barr, *Index to Biographical Fragments*, 1973: 227. • DBA: I 1074, 3-5; II 1115, 439-440. • Lambrecht & Quenstedt, *Catalogus*, 1938: 373. • *Neues Jahrbuch für Mineralogie, Geologie und Paläontologie*: Jg. 1880, 1, 2 unnumb. pages [in section added at back]. • Poggendorff: 3, 1159-60. • Sarjeant, *Geologists*, 1980: 3, 2029. • Volbehr & Weyl, *Professoren zu Kiel*, 1916: 109. • WBI.

**4169. French transl., 1834:** *Éléments | De | Cristallographie*, | Par M. Gustav Rose | (De Berlin). | Traduit De L'Allemand | Par M. Victor Regnault, | Élève-Ingénieur Au Corps Royal Des Mines, Et Ancien Elève | De L'École Polytechnique. | [ornate rule] | I<sup>re</sup> Partie.—Texte. | Paris, | L. Hachette, Rue Pierre-Sarrasin, N° 12. | Firmin Didot Frères, Rue Jacob, N° 24. | [wavy rule] | M DCCC XXXIV.

2 parts in one volume. [Text] 8°: [2], [1]-269, [1] p.; [Atlas] [1]-11, [1] p., 10 double-page lithographic plates. PAGE SIZE: 206 x 126 mm.

CONTENTS: [Text] [2 pgs], Title page, verso blank.; [1]-218, Text.; [219]-238, "Tableau | Des | Substances Minérales Cristallées."; [239], Blank.; [240]-269, "Notes."; [1 pg], Blank.

[Atlas] [1]-11, "Explication | Des Planches."; [1 pg], "Errata Du Texte."; [At end], 10 lithographic plates (double page; numbered I-X).

VERY SCARCE. Translated by Henri Victor Regnault [see note below] from *Elemente der Krystallographie* (1st ed., Berlin, 1833).

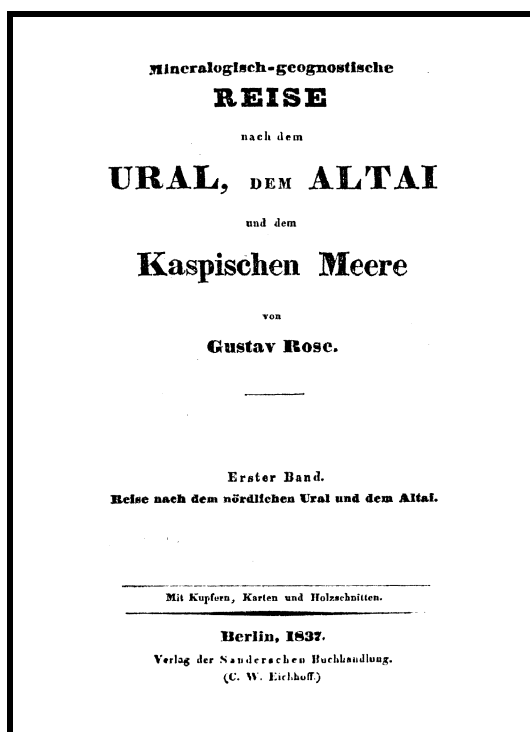
**Henri Victor Regnault.** (BORN: Aachen, France, 21 July 1810; DIED: Paris, France, 19 January 1878) *French chemist & crystallographer*. In 1832, Regnault was accepted into the Corps de Mines raising to the rank of Engineer in Chef, 2nd class by 1847. He then accepted a position as professor of chemistry at the École Polytechnique and

professor of physics at the College de France. He was elected a member of the French Academie des Sciences in 1840, and he won the Copley Medal of the Royal Society in 1869.

REFERENCES: BMC. • NUC: 504, 109-10 [NR 0421781]. (Regnault) ABF: I 879, 446-458; II 544, 281-285. • Glaeser, E., *Biographie nationale des contemporains*. Paris, 1878. 4,824 p. [French national biography of the 19th century]. • *Nouvelle Biographie Générale* (Hoefer). • Poggendorff: 2, cols. 588-90 & 3, 1099-1100. • Schaedler, *Biographisch Handwörterbuch*, 1891: 101. • WBI.

A Jegecizmé Elemei Rose Gustav Után (Pesten, 1843).

See: Mihálka, Antal.



MINERALOGISCH-GEOGNOSTISCHE REISE, 1837

### 4170. — German, 1837-42.

Mineralogisch-geognostische | Reise | nach dem | Ural, dem Altai | und dem | Kaspischen Meere | von | Gustav Rose. | [rule] | Erster Band. | Reise nach dem nördlichen Ural und dem Altai. | [rule] | Mit Kupfern, Karten und Holzschnitten. | [tapered rule] | Berlin, 1837. | Verlag der Sanderschen Buchhandlung. | (C.W. Eichhoff.)

[SERIES TITLE PAGE:]

Reise | nach dem | Ural, dem Altai | und dem | Kaspischen Meere | auf Befehl Sr. Majestät des Kaisers von Russland im | Jahre 1829 ausgeführt | von | A. von Humboldt | G. Ehrenberg und G. Rose. | [rule] | Mineralogisch-geognostischer Theil und historischer | Bericht der Reise | von | G.

Rose. | [tapered rule] | Berlin, 1837. | Verlag der Sanderschen Buchhandlung. | (C.W. Eichhoff.)

2 vols. [VOL 1: 1837] 8°:  $\pi^8$  \*7 1-40<sup>8</sup>  $\chi^2$ ; ?? $\ell$ .; [i]-xxx, [1]-641, [3] p., 3 folding maps, 7 plates (4 folding). [VOL 2: 1842] 8°:  $\pi^8$  1-388; ?? $\ell$ .; [iii]-xv, [3], [1]-606 p., 2 folding maps, 3 plates (crystal drawings). PAGE SIZE: 220 x 126 mm.

CONTENTS: [Vol 1] [i-ii], Blank, verso series title page.; [iii-iv], Title page, verso blank.; [v], Dedication to Count G. von Cancrin.; [vi], Blank.; [vii]-xvi, "Vorrede.;" [xvii]-xxvii, "Inhalts-Uebersicht.;" [xxviii], Blank.; [xxix]-xxx, "Zur Erläuterung der Tafeln.;" [1]-60, "I. Reise von Berlin nach Petersburg.;" 61-132, "II. Reise von Petersburg nach Katharinenburg.;" 133-278, "III. Katharinenburg und Excursionen in die Umgebungen der Stadt.;" 279-470, "IV. Reise in den nördlichen Ural.;" 471-502, "V. Reise von Katharinenburg nach der Altai.;" 503-613, "Der Altai.;" 614-620, "Ueber das Tellursilber und das Tellurblei von Sanodinskoi im Altai.;" 621-624, "Ueber den Rohstein von der Silberhütte von Barnaul.;" 625-628, "Ueber die Goldscheidung mittelst Schwefelsäure auf dem Münzhofe von Petersburg.;" 629-634, "Ueber die mittlere Temperatur von Petersburg, Moskau und Kasan.;" 635-641, "Ueber die Höhe von Moskau und Kasan über der Meeresfläche.;" [642], Blank.; [643], "Verbesserungen.;" [1 pg], Colophon: "Gedruckt bei C. Feister.;" [At end], 7 plates and 3 maps.

[Vol 2] [iii-iv], Blank, verso series title page.; [v-vi], Title page, verso blank.; [vii]-xv, "Inhalts-Uebersicht.;" [1 pg], Blank.; [1 pg], "Zur Erläuterung der Tafeln.;" [1 pg], Blank.; [1]-19, "VI. Reise vom Altai nach dem südlichen Ural.;" [20]-160, "VIII. Miask und Slatoust, und Excursionen in die Umgebungen.;" 161-216, "IX. Reise von Miask nach Orenburg.;" 217-292, "X. Reise von Orenburg nach Astrachen.;" 293-346, "XI. Astrachen und das kaspische Meer.;" 347-378, "Ueber den Uralit.;" 379-382, "Ueber den Chrysoberyll vom Ural.;" 383-385, "Ueber den Pyrrhit.;" 386-401, "Ueber die Platinerze des Ural.;" 402-429, "Ueber die chemische Zusammensetzung des gediegenen Goldes vom Ural.;" 430-438, "Ueber die Production an Gold, Silber und Platin im russischen Reiche und besonders im Ural.;" 439-442, "Höhe des nördlichen Ural."—contains the etymology of the word 'Ural'; 443-530, "Systematische Uebersicht der Mineralien und Gebirgsarten des Ural. I. Mineralien des Ural.;" 531-602, "II. Gebirgsarten des Ural.;" [603]-604, "Nachtrag.;" [605]-606, "Verbesserungen im ersten Theile.;" [At end], 3 plates and 2 maps.

PLATES: The plates and maps of the volumes are:

Volume 1: I. Diamant und Brochantit. II. Rothkupfererz, Gold. III. Kupfer. IV. Kupfer. V. Kupferlasur. VI. Kupferlasur. VII. Zirkon, Feldspath, Turmalin. Map I. Karte des Altaischen Hüttenbezirks und der Angränzenden Gegenden (folding; 3060 x 3090 mm.). VIII. Situationsplan der Turjinskischen Kupfergruben (folding; 220 x 4000 mm.; hand-colored). IX. Horizontaler Durchschnitt des dritten Theils der Curjinskisch-Frolawskischen Grube in einer Teufe von zehn bis funfzehn Saschenen.

Volume 2: I. Zirkon, Phrochlor, Aeschnit, Osmium-Jridium, Monazit. II. Topas, Hornblende, Augit. III. Schwerspath, Diopside, Hornblende, Uralit. IV. Karte des Landes zwischen dem Unter Laufe der Wolga und des Ural (340 x 262 mm.). V. Geognostische Karte von den Hüttenbezirken von Miask und Slatoust. (480 x 380 mm.).

RARE. In 1829, Rose along with C.G. Ehrenberg [see note below] was chosen to accompany HUMBOLDT on a scientific journey commissioned by the Russian Czar to the Urals, the Altai, and the Caspian Sea. This venture took him from Europe to as far as the China frontier. The *Mineralogisch-geognostische Reise*

chronicles the journey and includes many observations on geology, mineralogy, and mineral resources of the regions traversed. Since its publication, it has been widely quoted as an authoritative source about these matters. Volume one concerns the northern Urals and the Altai, while volume two describes the excursions through the southern Urals and the Caspian sea, reviewing in particular the minerals and geology of the Ural mountains.

Abridged English translation, 1994: By John Sinkankas.

Christian Gottfried Ehrenberg. (BORN: Delitzsch, Saxony, Germany, 19 April 1795; DIED: Berlin, Germany, 27 June 1876) *German physician, microscopist & naturalist*. Ehrenberg was the only survivor of an expedition sent by the Prussian Academy to North Africa and the Middle East, 1820-5. This initiated his interest in the fauna of the Red Sea. He went on an expedition to Siberia and Russia to collect material for St. Petersburg, Paris and Berlin museums.

REFERENCES: Dana's 7th (Bibliography): 79. • Hoppe, G. and G. Wappler, "Mineralogische Forschungsergebnisse Gustav Roses von der Russlandreise mit Alexander von Humboldt (1829)" *Zeitschrift geologischen Wissenschaften*, 4 (1976), no. 2, 337-44: 4 (2), 337-44. • NUC: 504, 109-10 [NR 0421784]. (Ehrenberg) ADB. • *Ann. Mag. Nat. Hist.*: 19 (1877), 113-6. • *Biographie Universelle*. • Cleavelly, *World Palaeontological Collections*, 1983: p. 110. • DSB: 4, 288-92. • *Encyclopaedia Britannica*, 11th edition. • Locker, Sigurd. "Christian Gottfried Ehrenberg (1795-1876) und die Mikrogeologische Sammlung", *Zeitschrift für geologischen Wissenschaften*, 8 (1980), no. 2, 231-38, 3 illus. • *Nouvelle Biographie Générale* (Hoefer). • Poggendorff: 1, cols. 646-7 & 3, 401. • *Proceedings of the American Academy of Arts & Sciences*: 12 (1876-7), 327-8. • *Quarterly Journal of Geological Society of London*: 33, Proceedings 56-60.

#### 4171. — German, 1846.

Über das | Krystallisationssystem des Quarzes. | [double rule] | Ein in der Akademie der Wissenschaften am 25. April 1844 | gehaltene Vorlesung | von | Gustav Rose. | [rule] | Mit fünf Kupfertafeln. | [rule] | Berlin. | Gedruckt in der Druckerei der königlichen Akademie | der Wissenschaften. | 1846. | [double rule] | Bei G. Reimer.

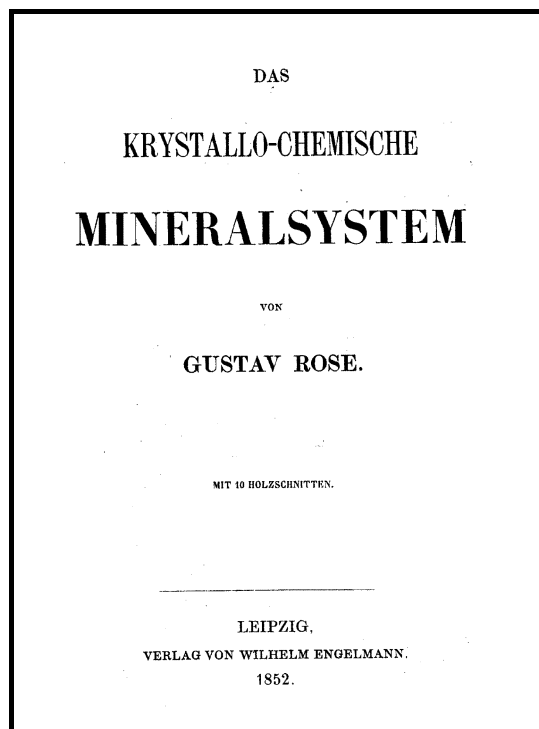
4°:  $\pi^2$  A-G<sup>4</sup> H<sup>1</sup>; 31 $\ell$ .; [4], [1]-58 p., 5 plates (one folding, numbered I-V). PAGE SIZE: 270 x 225 mm.

CONTENTS: [2 pgs], Title page, verso blank.; [1 pg], Dedication to Georg Friedrich Frick.; [1 pg], Blank.; [1]-58, Text.; [At end], 5 plates.

VERY SCARCE. This is a separately published paper recording a lecture Rose delivered before the Berlin Academy of Science on April 25, 1844. It is the first monograph entirely devoted to the subject of the crystallization of quartz. The text begins with a review of the previous literature that dealt with quartz crystal systems. Major worldwide localities and the quartz specimens they produce are then described. This commentary covers crystal forms, combinations, zoning and twins. The first four plates show various quartz crystal forms while the last one shows a complex projection of the known forms.

REFERENCES: NUC: 504, 109-10 [NR 0421788].





DAS MINERALSYSTEM, 1852

**4172. — German, 1852.**

Das | Krystallo-Chemische | Mineralsystem | von  
 | Gustav Rose. | Mit 10 Holzschnitten. | [rule] |  
 Leipzig. | Verlag Von Wilhelm Engelmann. | 1852.

8°: [1]-156 p., 10 woodcuts.

SCARCE. Important classified catalog of mineral species, presented as a modification of BERZELIUS' system of classification, in which the modifying principle is derived principally from crystallography. At the time this volume was written, natural history classification schemes were still generally accepted. Other researchers preferred a pure chemical approach following the theories of Berzelius, but could not easily integrate species like calcite and aragonite that have the same chemical composition but crystallize in different systems. In the *Krystallo-Chemische Mineralsystem* however, Rose blends mineralogical chemistry and crystallography into a coherent system of classification, which ended ideas about "natural classifications" and was a model for most later classifications.

In the introduction, Rose describes his theoretical approach to classification. His system consists of 4 major divisions: I. Simple bodies, subdivided by crystal form, II. Compounds of antimony, arsenic, tellurium, sulfur and selenium, III. Compounds of chlorine, fluorine, bromine and iodine, and IV. Oxygen compounds. This classification is followed by notes on crystallization and composition of many species. A catalog of minerals arranged according to the system

follows. Here the species under each division are arranged in columns according to their system of crystallization. The divisions are thus broken up into natural groups that exhibit interesting relationships between the species. Throughout, Rose provides extended notes and original views on many mineral species.

REFERENCES: *American Journal of Science*: 2nd Series, 15 (1853), 430 & 17 (1854), 81-2. • Dana's 7th (Bibliography): 79. • Groth, *Entwicklungsgeschichte*, 1926: 154-5. • NUC: 504, 109-10 [NR 0421783].

**4173. — German, 1874 [Collection catalog].**

Das Mineralogische Museum ... Systematisches Verzeichniss und Beschreibung seiner Schausammlungen. Von G. Rose und A. Sadebeck. Berlin, 1874. 8°: vii, 100 p.

RARE. Co-authored with Alexander Sadebeck [see note below].

**Alexander Sadebeck.** (BORN: Berlin, Germany, 26 June 1843; DIED: Hamburg, Germany, 9 December 1879) *German mineralogist, crystallographer & stratigrapher*. In 1865, Sadebeck received his Ph.D. from the University of Berlin. In 1872, he became professor ordinary of mineralogy and geology at the University of Kiel.

REFERENCES: BMC: 1, 149. • NUC: [no copy listed]. (Sadebeck) ADB: 30, 163-4. • *American Journal of Science*: 3rd Series, 19 (1880), 168. • Barr, *Index to Biographical Fragments*, 1973: 227. • DBA: I 1074, 3-5; II 1115, 439-440. • Lambrecht & Quenstedt, *Catalogus*, 1938: 373. • *Neues Jahrbuch für Mineralogie, Geologie und Paläontologie*: Jg. 1880, 1, 2 unnumb. pages [in section added at back]. • Poggendorff: 3, 1159-60. • Sarjeant, *Geologists*, 1980: 3, 2029. • Volbehr & Weyl, *Professoren zu Kiel*, 1916: 109. • WBI.

**ROSENBUSCH, Harry (Karl Heinrich Ferdinand).**

(BORN: Einbeck, Germany, 24 June 1836; DIED: Heidelberg, Germany, 20 January 1914) *German mineralogist*.

Rosenbusch taught and researched as professor for petrography and mineralogy at the Universities of Strasbourg and Heidelberg. In 1903 he won the distinguished Wollaston medal of the Geological Society of London.

REFERENCES: DBA: I 1055, 70; II 1096, 65-77. • Poggendorff: 3, ?? & 4, ??. • Sarjeant, *Geologists*, 1980. • WBI.

**4174. — German, 1870 [Freiburg].**

Mineralogische und geognostische Notizen von einer Reise in Sudbrasilien von H. Rosenbusch. Freiburg, Universitäts-Buchdruckerei von H.M. Poppen un Sohn, 1870.

8°: 39 p., one plate, illus. A short notice of a trip taken by Rosenbusch to southern Brazil, and the mineralogical and geological wonders he encountered. RARE.

REFERENCES: NUC.

**4175. — German, 1873-7 [First edition].**

Mikroskopische | Physiographie | der | petrographisch wichtigen Mineralien. | Ein Hilfsbuch | bei mikroskopischen Gesteinsstudien | von | H. Rosenbusch. | Mit 102 Holzschnitten und

10 Tafeln in Farbendruck. | [ornate rule] | Stuttgart.  
| E. Schweizerbart'sche Verlagshandlung (E. Koch).  
| 1873.

[TITLE OF SECOND VOLUME READS:]

Mikroskopische | ... | Band II. | Massige Gesteine.  
| ... | 1877.

2 vols. [VOL 1: 1873] 8°: [i]-ix, [3], [1]-400 p. [VOL  
2: 1877] 8°: [i]-xii, [1]-596, [2] p.

CONTENTS: [Vol 1] [i-ii], Title page, verso blank.; [iii]-  
vi, "Vorwort."—signed H. Rosenbusch, May 1873.; [vii]-ix,  
"Inhalt.;" [1 pg], Blank.; [2 pgs], "Verzeichniss der Tafeln.;"  
[1]-379, Text.; 380-395, "Literatur-Nachweis.;" 396-398,  
"Register.;" [1 pg], "Berichtigungen.;" [1 pg], Blank.

[Vol 2] [i-ii], Blank, verso series title page.;  
[iii-iv], Title page, verso printer's information.; [v]-  
"Vorwort."—signed H. Rosenbusch, July 1877.; [ix]-xii,  
"Inhaltsverzeichnis.;" [1]-545, Text.; 546-556, "Anhang.;"  
557-587, "Literaturnachweis.;" 588-596, "Register.;" [1 pg],  
"Druckfehler-Verzeichniss.;" [1 pg], Blank.

VERY SCARCE. In the 19th century the study of the optical properties of minerals was in its infancy, and the research of Rosenbusch was fundamental. His monumental *Mikroskopische Physiographie der petrographischen wichtigen Mineralien* (The Microscopic Physiography of the Petrographically Important Minerals) outlines the practical means by which rocks can be identified according to determination under the microscope. "It contains an exhaustive statement of the practical methods according to which rocks may be identified by means of the morphological, physical, and chemical properties of their component minerals. This is followed by a full and methodical discussion of the microscopic characters of rock-forming minerals. The optical consideration of the phenomena of polarization was elucidated so admirably by Rosenbusch, that his work created a secure basis for future petrographical researches. With the improvement of the microscope and the polarizing apparatus, by the introduction of a rotating stage, and by other mechanical aids, it was now rendered possible to distinguish not only singly or doubly refracting bodies and uniaxial or biaxial minerals, but also to determine more accurately the specific optical properties of minerals belonging to the different systems of crystallization. After the publication of this great work, Rosenbusch took rank along with Zirkel as one of the great pioneers in the microscopical investigation of rocks."

"In 1877, Rosenbusch published a second volume entitled *Die mikroskopische Physiographie der massigen Gesteine* in which he distinguished the massive rocks according to the felspathic modifications: 1, Orthoclase rocks; 2, Orthoclase, nepheline, leucite rocks; 3, Plagioclase rocks; 4, Plagioclase, nepheline, leucite rocks; 5, Nepheline rocks; 6, Leucite rocks; 7, Non-felspathic rock, or peridotites. Each of these groups was subject to further subdivision according to the particular rock structure, or in the case of the felspathic rocks according to the presence or absence of quartz."—Zittel

2nd edition, 1885: 2 vols. [i]-xiv, [2], [1]-664 p., 26 plates.; [i]-xiv, [2], [1]-877, [1] p., 6 plates.

3rd edition, 1892-1896: 2 vols. [i]-xvii, [1], [1]-712 p., 24 plates.; [i]-xiv, [1]-1360 p.

4th edition, 1905: 2 vols.

English transl., 1889: Microscopical | Physiography | Of The | Rock-Making Minerals | An Aid To The | Microscopical Study Of Rocks | By | H. Rosenbusch. | Translated And Abridged For Use In Schools And | Colleges | By | Joseph P. Iddings. | Illustrated by 121 Wood-cuts and 26 Plates of Photomicrographs. | [rule] | Second, Revised Edition, with Mineralogical Tables added. | [rule] | New York: | John Wiley & Sons, | 15 Astor Place. | 1889. [2], [i]-xiii, [1], [1]-333, [1] p.

REFERENCES: *Jahrbuch für Mineralogie*: 1873, p. 753-4.  
• NUC. • *USGS Library Catalog*. • Zittel, *History of Geology*, 1901: p. 331.

ROSENKRANZ, Eduard.

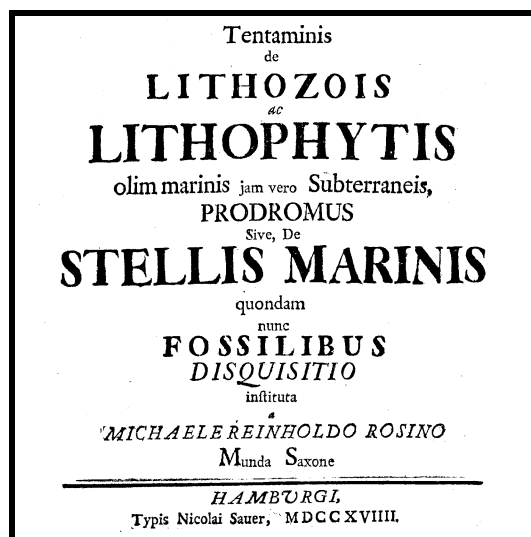
4176. — German, 1907 [Dissertation].

Übersicht der Mineralien des Bayerischen Waldes und des Oberpfälzer Waldgebirges. Dissertation, Univ. Erlangen. München, Bayerische Druckerei & Verlagsanstalt, G.M.B.H., 1907.

4°: 86, [2] p. "Literaturübersicht," p. [5]-8.

VERY SCARCE. Topographical mineralogy describing minerals found in Bavaria in Germany.

REFERENCES: NUC. • Spencer, *Catalogue of Topographical Mineralogies*, 1948: [p. 308]. • *USGS Library Catalog*.



TENTAMINIS DE LITHOZOIS AC LITHOPHYTIS, 1719

ROSINI (Rosinus), Michael Reinhold.

4177. — Latin, 1719.

Tentaminis | de | Lithozois | ac | Lithophytis |  
olim marinis jam vero Subterraneis, | Prodrum  
| Sive, De | Stellis Marinis | quondam | nunc |  
Fossilibus | Disquisitio | instituta | a | Michaele  
Reinholdo Rosino | Munda Saxone | [double rule] |  
Hambvrgi, | Typis Nicolai Sauer, MDCCXVIII.

8°: [10], 88, [4] p., 10 folding tables.

VERY SCARCE. Treats fossil corals and sponge, and is the prospectus for a larger more detailed and unpublished work.

## ROSSI

REFERENCES: BL: [458.a.9.]. • LKG: XVII 129.

### 4178. — Latin, 1728.

De Belemnitis et Hisca Plerumque Insidentibus Alveolis Animadversiones. Francohus, 1728.

8°: VERY SCARCE.

REFERENCES: LKG: XVII 130 & 131.

**ROSS, William Alexander.** (BORN: ; DIED: )  
*English chemist.*

REFERENCES: BBA: I 949, 257. • Kirk, *Critical Dictionary of English Literature*, 1891. • WBI.

### 4179. — English, 1875.

Pyrology, Or, Fire Chemistry; | A Science Interesting To The General Philosopher, | And | An Art Of Infinite Importance | To The | Chemist, Mineralogist, Metallurgist, Geologist, Agriculturist, | Engineer (Mining, Civil And Military), &c., &c. | By | William Alexander Ross, | Lately A Major In The Royal Antillery. | [...one line of quotation...] | [ornament] | London: | E. & F.N. Spon, 48, Charing Cross. | New York: 446, Broome Street. | 1875. | (The Right of Transaltion is reserved.)

8°: [i]-xxviii, [1]-346 p., illustrations, frontispiece (colored), 3 plates, folding table.

CONTENTS: [i-ii], Title page, verso blank.; [iii], Dedication.; [iv], Blank.; [v]-xxiv, "Preface."—signed W.A. Ross, 11 May 1875.; [xxv], "Analysis Of Contents."; [xxvi], Blank.; [xxvii], "List Of Plates And Cuts."; xxviii, "Explanation of Terms and Symbols."; [1]-319, Text.; 320-321, "Appendix A. Pliny's Cadmia."; 322-335, "Appendix B."; 336, "Appendix C."; 337-346, "Index."

VERY SCARCE. *Pyrology, or, Fire Chemistry* is a work that describes the chemical analysis of substances through intense heat, especially that most useful instrument the mouth blowpipe. In the introductory section, the author provides some useful historical background information. This is followed by descriptions of the materials, reagents, basic operations, and a systematic rule set for undertaking an analysis of an unknown substance. Descriptions of the reactions that might be expected from various elements is also covered. In a very short section the manufacture of artificial gemstones is covered. Prior to publication, sections of this book appeared as articles authored by Ross in the *Chemical News* for the years 1873 and 1874.

REFERENCES: Bolton, *Bibliography of Chemistry*, 1893: p. 786. • Engelmann, *Bibliotheca Historico-Naturalis*, 1846: p. 273. • NUC.

### 4180. — English, 1880.

Alphabetical manual of blowpipe analysis. Showing all known methods old and new. By W.A. Ross ... London, Trubner & Co., 1880.

8°: [4], [vii]-ix, [2], 148 p., illus. VERY SCARCE.

REFERENCES: NUC.

### 4181. — English, 1884.

The Blowpipe | In | Chemistry, Mineralogy, And Geology, | Containing | All Known Methods Of

Anhydrous Analysis, | Many Working Examples And Instruc- | tions For Making Apparatus. | By | Lieut.-Colonel W.A. Ross, R.A. (Retired), F.G.S. | [...2 lines of titles and memberships...] | With One Hundred and Twenty Illustrations by the Author | [...2 lines of quotation...] | [ornament] | London | Crosby Lockwood And Co. | 7, Stationers' Hall Court, Ludgate Hill | 1884 | [All rights reserved].

8°: [i]-xv, [1], [1]-196 p., illus.

CONTENTS: [i-ii], Half title page, "The Blowpipe | In Chemistry, Mineralogy, And Geology," verso "Works By The Same Author."; [iii-iv], Title page, verso "London: | Printed by J.S. Virtue And Co., Limited, | ..."; [v], Letter in German addressed to Bruno Kerl.; [vi], Blank.; [vii]-viii, "Preface."—dated May 1884.; [ix]-xii, "Introduction."; [xiii]-xv, "Contents."; [1 pg], Blank.; [1]-190, Text.; [191]-196, "Index."

VERY SCARCE. A good work describing the blowpipe and its use in chemistry, mineralogy, and geology. The text is divided into 12 chapters and covers the manufacturing of blowpipes, construction of the lamps that supply the flame, supports and other apparatus, reagents, simple mineral analysis, reduction of metals, etc. It ends with examples showing the steps taken in the analysis of some minerals performed at the Freiberg Bergakademie.

REFERENCES: Bolton, *Bibliography of Chemistry*, 1893: p. 73. • Engelmann, *Bibliotheca Historico-Naturalis*, 1846: p. 241. • NUC.

**4182. 2nd edition, 1889:** The Blowpipe in Chemistry, Mineralogy and Geology, containing all known methods of anhydrous analysis, many working examples, and instructions for making apparatus, by Lieut.-Colonel W.A. Ross ... Second edition, revised and enlarged. London, C. Lockwood and Son, 1889.

8°: xv, 214 p., 120 illus., plates (folded). VERY SCARCE.

REFERENCES: NUC.

**4183. Reprint, 1905:** The Blowpipe in Chemistry, Mineralogy and Geology, containing all known methods of anhydrous analysis, many working examples, and instructions for making apparatus, by Lieut.-Colonel W.A. Ross ... Reprint of the 2nd (1889) edition. London, C. Lockwood and Son, 1905.

8°: xv, 214 p., illustrations, folding plate, folding table. VERY SCARCE.

REFERENCES: NUC.

**4184. German transl., 1889:** Lothrohr in der Chemie und Mineralogie. Leipzig, 1889.

8°: 216 p. Translation of *The Blowpipe in Chemistry, Mineralogy and Geology* (2nd ed., London, 1889). VERY SCARCE.

REFERENCES: Burchard, *History of Blowpipe Analysis*, 1984.

## ROSSI, Giovanni Battista de.

### 4185. — Latin, 1857.

Nuovi Principii Mineralogici. Venice, 1857.

4°: 64 p.

RARE. According to the notice in the *Neues Jahrbuch für Mineralogie* this work presents a new classification of minerals, dividing them into 6 classes and their subordinate groups. The classes are, 1. Exogens, the gases and water; 2. Endogens, the sulphurets, tellurets, arseniurets, etc.; 3. Hypogens, the

feldspars and related silicates; 4. Perigens, magnesia and aluminous hydrosilicates; 5. Epigens, carbonates, sulphates, chlorides, fluorides, etc.; 6. Metagens, garnet, pyroxene, mica, tourmaline, spinel, etc.

REFERENCES: *Jahrbuch für Mineralogie*: 1858, p. 75.

**RÖSSLIN (Rhodion), Eucharius.** (BORN: c1490; DIED: Frankfurt/Main, Germany, 1553/4) *German physician & botanist.*

Röslin was the city physician in Frankfurt/Main. He wrote several books concerned with obstetrics and pharmacy. CONFUSING BIOGRAPHY BECAUSE FATHER WAS SAME NAME. CHECK ON THIS ONE — SEE NISSEN.

REFERENCES: DBA: II 1088, 261-262. • Hirsch, *Biographisches Lexikon*, 1884-8: 5, 60 [by W. Stricker]. • Nissen, *Herbals of Five Centuries*, 1958: 63. • Roth, F.W.E., "Botaniker Eucharius Roesslin, Theod. Dorsten, und Adam Lonicer (1526-1586)," *Zentralblatt fuer Bibliothekswesen*: 19 (1902), 277-86. • Sudhoff, Karl., "Eucharius Rösslin der Jungern über seinen Lebensgang," *Archiv für die Geschichte der Medizin*, 2 (1909), 139-40. • WBI. • Zischka, *Allgemeines Gelehrten-Lexikon*, 1961: 253.



KREUTTERBÜCH, 1533

**4186. — German, 1533** [First edition].

[Contained within a rectangular compartment inside a larger border showing various herbs and distillation apparatus:] Kreutterbüch | von allem Erdgewächs/ | Anfenglich von Doctor Johann Cuba zusa= | men bracht/ | Jetz widerum new Corrigirt/ | und auß den bestberümpften Artzten/ | auch täglicher erfarnuß/ gemehrt. | Mit warer Abconterfeitung

| aller Kreuter. | Distillierbüch Hierony | mi Braunschwig/ von aller treu | ter aufgebreniten Wassern/ hiemit | fuglich ingeleibt. | D. Eucharius Rhodion, Stattartz zu | Franckfurt am Meyn. | Zu Franckfurt am Meyn, Bei Christian Egenolph.

2°: [16], CCXII, [7] p., illus. VERY RARE.

English translation, 1978: Eucharius Rösslin | The Younger | On Minerals and Mineral Products | Chapters on Minerals from his | "Kreutterbüch" | Critical Text, English Translation, | and Commentary by | Johanna Schwind Belkin and Earle Radcliffe Caley | Walter de Gruyter • Berlin • New York | 1978. 8°: xxxvii, [1], 418, [2] p., illus. Published as: *Ars medica: Abteilung 4, Landessprachige und mittelalterliche Medizin*, 1, ISBN 3110069075.

Modern translation of selected chapters from the 1535 edition of the *Kreutterbuch*. Text in English and German. Includes indexes. Bibliography: p. [xi]-xxxvii. "Works of Rösslin the Younger": p. 4-7.

REFERENCES: NUC: [no copy listed].

**4187. 2nd edition, 1535:** Kreutterbüch. Von aller Kreutter, Gethier, Gesteine vnd Metal, Natur Nutz, vnd Gebrauch. Distillier Zeug und Bericht, allerhandt kostbarliche Wasser zubrennen, halten und gebrauchen ... Franckenfurt am Meyn, Christian Egenolff, [1535].

2°: [24], cccix p., illus. VERY RARE.

REFERENCES: NUC: 500, 660-3 [NR 0370259]. • Wellcome Catalog (Books): 1, no. 5521.

**4188. 3rd edition, 1536:** [Contained within a woodcut border composed of separate cuts of pheasant, nuts, lizard, etc.] Kreutterbüch/ von | aller Kreuter/ Gethier/ Gesteine vnd / | Metal/ Natur/ nutz/ vnd gebrauch. | Mitt aller derenn leblicher | Abconterseytunge. | Distillier zeug vnd Bericht/ Aller | handt Kostbarliche Wasser zubrennen/ halten | und gebrauchen. | Alles über vorige Edition/ Gebesseret vnd gemehret. | Inhalt Dreier fleissigen fürgestellten Register. | Mit Keyserlicher Maiestat Gnad vnd Priuilegio, Getruckt | zu Franckenfurt, am Mayn, Bei | Christian Egenolffen. | [Large rectangular woodcut].

2°: a-b<sup>6</sup> A-Z<sup>6</sup> Aa-Bb<sup>6</sup> Cc<sup>4</sup> Dd<sup>8</sup> (O4 missed O); 174l.; [24], CCCXIX, [5] p. Page 135 wrongly numbered CXXVV, 199 is CXICX and 219 is CCIX. Double column, title printed above a large woodcut garden scene with distillery, inset of sick patient, group of doctors and other related activities, partial title border composed of several small cuts of plants, animals, fruits and minerals, approximately 250 text woodcuts of plants, animas, distilling apparatus, minerals, etc. COLOPHON (Dd8r): Getruckt zu Franckfurt am Meyn / bei Christian Egenolph. | Im Augstmon [!]. | Anno M.D.XXXVI. PAGE SIZE: 307 x 204 mm.

VERY RARE. A reprint of Egenolph's 1535 edition of Rösslin's compilation, enlarged with additional woodcuts, primarily of animals, not included in the first edition of 1533. The title woodcut was used in later editions of this work, and copied in reverse for some editions of LONITZER. Like all of Egenolff's botanical publications, were copied illicitly from Fuchs, Brunfels, and other contemporary herbals.

REFERENCES: BM/STC *German*: 230 [listed under Cube]. • Hunt Botanical Catalog: no. 38. • Nissen (BBI): no. 1668. • NUC: [no copy listed].

**4189. 1540:** Kreutterbüch/ von aller Kreuter/ Gethier/ Gesteine vnd Metal/ Natur/ Nutz vnd gebrauch. Mitt aller derenn leblicher abconterfeytunge. Distillier zeug vnd bericht/ aller handt kostbarliche wasserzubrennen/ halten vnd gebrauchen. Alles über vorige edition/ gebessert vnd gemehret. Inhalt dreier fleissigen fürgestellten register ... Getruckt zu Franckenfurt, Christian Egenolffen, [1540].

2°: [24], cccxviii p., [6] p., illus. RARE.

REFERENCES: NUC: 500, 660-3 [NR 0370258].

**4190. 1546:** Kreutterbüch, vonn aller Kreutter, Baum, Gesteud vn Frucht, dess gleichen der Gethier, edlen Gesteyn, Metal und anderer Simplicien unnd Stucken der Arznei, natürlichem Nutz und Gebrauch. Mit aller deren fleissiger Beschreibung, und leblichen Abconterfeytungen. Distillier Zeug und Bericht, kostbarliche Wasser zubrennen, halten und gebrauchen. Alles uber vorige Edition, gebessert und gemehrt. Inhalt dreier fleissigen furgestellten Register. Franckfurt am Meyn, Gedruckt bei Christian Egenolph, [M.D.XLVI].

2<sup>o</sup>: [24] p., CCXLII numb.ℓ. illus. Woodcut illustrations on title-page. RARE.

REFERENCES: Hellman: 26. • Nissen (BBI): no. 1668. • NLM 16th Century Books (Durling): no. 3914 [incomplete]. • NUC: [no copy listed].

**4191. 1550:** [Large rectangular woodcut, showing a distillery] | Kreuterbüch / Von natur= | lichem Nutz/ vnd gründlichem Gebrauch | der Kreutter/ Bâ/ Gesteud/ vnnd Früchten/ für= | nemlich Teutscher Lande. Deßgleichen der Gethier/ Edlen ge= | steyn/ Metal/ vnd anderer Simplicien vnd Stucken der | Arznei. Mit aller deren fleissiger Beschreibung/ vnd | leblichen Abconterseytungen. | Distillierns Bereydttschafft/ vnd Bericht/ Kost= | barliche Wasser subrennen/ abziehen/ halten vnd zugebrauchen. | Alles über vorige Edition/ mit verbesserung/ auß täglicher erfarnitz/ | auch alten vnd neuen Scribenten in der Arznei/ gemehrt. | Inhalt dreier fleissigen vorgehenden Register. | Mit Keyserlicher Maiestat Gnad vnd Priluilegio/ Getruckt zu Franckfurt | am Meyn/ Bei Christian Egenolffen. | [Large rectangular woodcut showing a garden scene with distillery, inset of sick patient, group of doctors and other related activities].

2<sup>o</sup>: PAGE SIZE: 302 x 197 mm.

VERY RARE. Expanded version of Rösslin's compilation of herbals, illustrated with over twice as many woodcuts as the 1535 edition and its reprints. Nissen lists 4 later editions reprinting this expanded edition. The woodcuts, copied from various sources and used throughout Egenolff's many botanical editions are the work of several wood engravers, among them Hans Sebald Beham (see Nissen).

REFERENCES: Nissen (BBI): no. 1669. • NUC: [no copy listed]. • Wellcome Catalog (Books): 1, no. 5522.

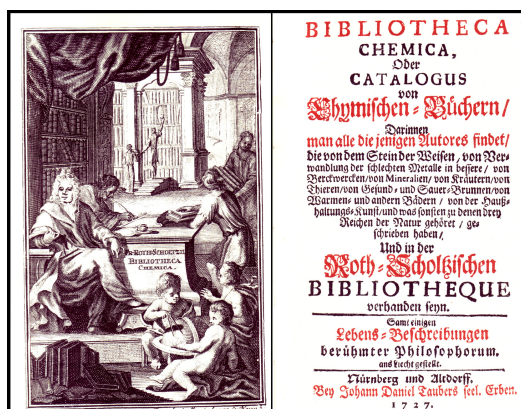
**ROTH-SCHOLTZ, Friederich.** (BORN: Herrnstadt, Bavaria, Germany, 17 September 1687; DIED: Nuremberg, Germany, 15 January 1736) *German bookseller.*

Bookseller and librarian, Rothschoz compiled a large personal library of books, especially in chemistry, alchemy, and some mineralogy.

REFERENCES: ADB: 29, p. 346-348. • DBA: I 1059, 195-204. • WBI.

**4192. — German, 1727-9** [Bibliography].

[In red:] Bibliotheca | [in black:] Chemica, | Oder | Catalogus | Von | [in red:] Chymischen=Büchern/ | [in black:] Darinnen | [in red:] man alle die jenigen Autores findet/ | [in black:] die von dem Stein der Weisen, von Ver= | wandlung der schlechten Metalle in bessere/ von | Berckwercken/ von Mineralien/ von Kräutern/ von | Thieren/ von Gesud= und Sauer=Brunnen/ von | Warmen= und andern Bädern/ von der Hauß= | haltungs=Kunst/ und was sonst zu denen drey | Reichen der Natur gehöret/ ge= | schrieben haben/ | Und in der | [in red:] Roth=Scholtzischen | [in black:] Bibliotheque | verhanden seyn. | [rule] |



BIBLIOTHECA CHEMICA, 1727

Samt einigen | [in red:] Lebens=Beschreibungen | [in black:] berühmter Philosophorum. | aus Liecht gestellt. | [rule] | Nürnberg und Altdorff. | [in red:] Bey Johann Daniel Taubers seel. Erben. | 1727.

5 parts in one volume. 8<sup>o</sup>: [2], [1]-14 p., [1]-48 p., frontispiece.; [49]-96 p.; [2], 97-172 p., frontispiece.; [173]-250 p., frontispiece.; [251]-296, 207-238, frontispiece. Each part has its own separate title page. Fine engraved frontispiece of a library by Joseph à Montalegre sc. Norimb. and 4 engraved portraits. PAGE SIZE: 160 94 mm.

CONTENTS: [Part 1] [Frontispiece, interior of library]; [1-2], Title page, verso blank.; 3, "Hochgeneigter Leser!"; 4, "Ehrenrettung."; 5, "Innhalt des gantzen Werckes."; 6-14, Text.; [1], Sectional title page, dated 1725.; [2], "Vorrede."; 3-48, Text.

[Part 2] [49], Sectional title page, dated 1727.; 50, "Vorrede."; 51-96, Text.

[Part 3] [Frontispiece, Nicolaus Flamell]; [2 pgs], Sectional title page dated 1728, verso blank.; 97-105, "Geneigter Leser!"; 106-172, Text.

[Part 4] [Frontispiece, Johann Friderich Helvetius]; [173], Sectional title page, dated 1728.; 174-250, Text.

[Part 5] [Frontispiece, Olaus Borrichius]; [251], Sectional title page, dated 1729.; 252-296, Text.; 207-238, "Wohledler | Insonder Hochgeehrtester Herr!".

VERY RARE, especially in complete sets. Early bibliography of chemical and alchemical literature, being a series of catalogs of old chemical books in the library of the Nuremberg bookdealer Friedrich Roth-Scholtz. Being so early, there are several titles listed that are also mineralogical in nature. Ferguson, *Bibliotheca Chemica*, p. 297: "The Bibliotheca was issued in five parts, which were afterwards collected in one volume with the general title given above. Each part has a separate title-page."

Facsimile reprint, 1971: *Bibliotheca Chemica, oder Catalogus von Chymischen Büchern* (1727). Hildesheim, New York, G. Olms, 1971. [ISBN 3487041170].

REFERENCES: Bolton, *Bibliography of Chemistry*, 1893: p. 28. • Cailliet, *Manuel*, 1912: no. 9620. • Ferguson, *Bibliotheca Chemica*, 1906: 2, p. 166. • Hoover Collection: no. 695.

**ROXO (Rojo), Juan Bernardino.** (BORN: ; DIED: ) *Spanish naturalist & author.*

Active around Gascueña, in the province of Cuenca.

REFERENCES: ABE: I 827, 288. • Maffei & Rua Figuera, *Bibliografía Mineral*, 1871-2: 2, 111-2. • WBI.

**4193. — Spanish, 1747.**

✱ | Theurgia General, | y Especifica | de las Graves Calidades, Maravillosas | virtudes, y apreciable conocimiento de las preciosas Piedras de Universo: | Una Breve Explicacion de los Enigmaticos | colores: | Un Discurso Ilustrado Giganteo: | Y | Los Raros Hechos Del Obispo Fingido | Griego, Legatus à Latere. | Su Author | Don Juan Bernardino Roxo, Capellan Mayor (Jubilado) Delegado | Apostolico, con facultades de Vicario General de los Exercitos Catholicos en las Expediciones de Oràn, penultima de Italia, y electo | que sue para la que se bacia en Mallorca el año de 1740. | È Inquisidor en ellos, &c. | Dedicase | A la Exc.<sup>ma</sup> Señora Doña Maria Ana | Francisca Spinola y Sylva, Condesa de Sirvela, &c. | Y Al Mismo Tiempo se Defienda A Todas | las señoras mugeres en esta humilde atenta Dedicatoria, | con graves, sólidas, invulnerables doctrinas. | [rule] | Con Licencia. En Madrid: Por Antonio Marin, año de 1747. | [rule] | Se hallar à en la Libreria de Juan de Moya, frente las Gradas de San Phelipe.

8°: ¶4¶8 5¶4 A-X8 Y4; 172ℓ.; [72], 1-343, [1] blank p. PAGE SIZE: 205 x 150 mm. VERY RARE.

CONTENTS: [2 pgs], Title page, verso "S. Geron. y S. Agust. in Dan. ..."; [32 pages], Dedication to Señora Doña Maria; [11 pgs], "Aprobacion del R.P.M. Fr. Julian ..."; [1 pg], Errata.; [4 pgs], "Tabla de los Ordenes contenidos en este Libro."; [15 pgs], "Argumento, y Observacion, que podrá tener el piadoso, prudente, cortesano Lector."; [1 pg], Blank.; [6 pgs], "Carta Admirable, y digna de toda confideracion."; 1-226, Text divided into 23 Orden.; 227-282, "Discurso Giganteo, dividido en dos consideraciones, y estas en viente y ocho Excessos."; 283-307, "Yida, Y Sucesos del Fingido obispo griego Francisco Camacho ..."; 308-343, "Indice Alfabético General ..."; [1 pg], Blank.

REFERENCES: Maffei & Rua Figuera, *Bibliografía Mineral*, 1871-2: 2, ?? • Palau, *Manual*, 1948-77: no. 276251. • Sinkankas, *Gemology Bibliography*, 1993: no. 5599.

**ROYAL GEOLOGICAL SOCIETY OF CORNWALL.**

This Society was founded on 11 February 1814 in Penzance, Cornwall, and rapidly became one of the leading societies of the day.

**4194. — English, 1818- [Periodical].**

Transactions | Of The | Royal Geological Society | Of | Cornwall. | Instituted February 11th, 1814. | [tapered rule] | Volume The First. | [double rule] | [...4 lines of quotation...] | [double rule] | London: | Printed And Sold By William Phillips, George Yard, | Lombard Street. | [rule] | 1818.

Vol. 1 (1818)- . Frequency varies. Vol. 6, includes the society's annual reports for 1844-1846. Publication suspended 1939-1942. RARE.

REFERENCES: Bolton, *Catalogue of Periodicals*, 1897. • NUC. • *Union List of Serials*. • *USGS Library Catalog*.

**4195. — English, 1882 [First edition].**

A Catalogue of the Library of the Royal Geological Society of Cornwall Compiled by William Ambrose Taylor. Plymouth, W.Brendon and Son, 1882.

8°: 160 p. This catalogue gives just a taste of the amazing collection that was lost to Cornwall in the ill conceived sell off of this library, mainly in job lots at auction, between 1977 and 1999. RARE.

REFERENCES: BL: [2719.x.1229]. • NUC. • *USGS Library Catalog*.

**ROYAL SOCIETY OF LONDON.**

Musævm Regalis Societatis. Or a Catalogue & Description of the Natural and Artificial Rarities belonging to the Royal Society and preserved at Gresham Colledge. (London, 1681, and other editions).

See: Grew, Nehemiah.

**4196. — English, et al., 1867-1925.**

Catalogue | Of | Scientific Papers | (1800-1863) | [rule] | Compiled By The | Royal Society Of London. | [rule] | Vol. I. | [rule] | (1867) | London: | Printed By George Edward Eyre And William Spottiswoode, | Printers To The Queen's Most Excellent Majesty. | For Her Majesty's Stationary Office. | [short rule] | 1867.

19 vols.

**First series. Papers 1800-1863.**

[VOL 1: 1867] 4°: [i]-lxxix, [1] blank, [1]-960 p. (authors A-Coa). [VOL 2: 1868] 4°: [i]-iv, [1]-1012 p. (authors Coaklay-Gray). [VOL 3: 1869] 4°: [i]-v, [1], [1]-1002 p. (authors Greatheed-Lézé). [VOL 4: 1870] 4°: [i]-iv, [1]-1006 p. (authors L'Heritier-Portal). [VOL 5: 1871] 4°: [i]-iv, [1]-1000 p. (authors Praag-Tizzani). [VOL 6: 1872] 4°: [i]-xi, [1], [1]-763, [1] p. (authors Tkalec-Zuchold).

**Second series. Papers 1864-1873.**

[VOL 7: 1877] 4°: [i]-xxxii, [1], [1]-1047, [1] p. (authors A-Hytrl). [VOL 8: 1879] 4°: [2], [1]-1310 p. (authors Ibanez-Zwicky).

**Third series. Papers 1874-1883.**

[VOL 9: 1891] 4°: [i]-xxxii, [1]-1016 p. (authors A-Girtman). [VOL 10: 1894] 4°: [4], [1]-1048 p. (authors Gissmann-Pettersson). [VOL 11: 1896] 4°: [4], [1]-902 p. (authors Pettigrew-Zeisch).

**Supplement to the previous volumes 1880-1883.**

[VOL 12: 1902] 4°: [i]-xxxii, [1]-807, [1] p. (authors A-Zwanziger).

**Fourth series. Papers 1884-1900.**

[VOL 13: 1914] 4°: [i]-xcviii, [1]-951, [1] p. (authors A-B). [VOL 14: 1915] 4°: [4], [1]-1024 p. (authors C-Fittig). [VOL 15: 1916] 4°: [i]-vi, [1]-1012 p. (authors Fitting-Hyslop). [VOL 16: 1918] 4°: [i]-vi, [1]-1054 p. (authors I-Marbut). [VOL 17: 1921] 4°: [4], [1]-1053 p. (authors Marc-P). [VOL 18: 1923] 4°: [4], [1]-1067, [1] p. (authors Q-S). [VOL 19: 1925] 4°: [4], [1]-877, [1] p. (authors T-Z).

**Subject Index Volumes. 1800-1900.**

## ROYAL SOCIETY OF LONDON

4°: [i]-lviii, [1]-666 p. (Mathematics). 4°: [i]-lxxiii, [1], [1]-355, [1] p. (Mechanics). 4°: [i]-c, [1]-550, i-vii, [1] p. (Physics Part I). 4°: [i]-xv, [1], 551-927, i-vii p. (Physics Part II).

VERY SCARCE. This author bibliography lists hundreds of thousands of articles published in over 1,500 periodicals and transactions of learned societies and institutions in various languages during the nineteenth century. It is world wide in scope, and in the case of Russian items a translation in either French or English is provided. It is an unsurpassed compilation covering all the sciences, including mineralogy and crystallography. In regard to indexing articles that are mineralogical in nature, this work carried on in broader scope the tradition of J.D. REUSS' *Repertorium Commentationum a Societatibus Litterariis Editarum* (16 vols., Göttingen, 1801-21).

This work is so important for tracing articles published in the nineteenth century that it is in many cases the first choice for building reference lists for authors of the period. Its compilation was first suggested at the Glasgow meeting of the B.A.A.S. in 1855 by Joseph Henry [1797-1878], secretary of the Smithsonian Institution, and the plan was drawn up in 1857. After many years of preparation and considerable expenditure, the first volume appeared in 1867.

To give an idea of the size of this catalogue it will suffice to remark that the papers catalogued in the fourth series alone, for the period 1884-1900, number 384,478 citations, by 68,577 authors.

The compilation of a subject index, without which the work loses much of its value, was already contemplated in the first plan (1857). It was finally decided to arrange it in accordance with the *International Catalogue of Scientific Literature* (which see below). This meant that it would include seventeen volumes, one for each of the seventeen sciences recognized in that catalogue. The first volume, Pure Mathematics, appeared in 1908; the second, Mechanics, in 1909, the third, Physics, in two instalments, Generalities, Heat, Light, Sound in 1912, Electricity and Magnetism in 1914. The publication was then finally discontinued, which is a great pity. Whatever the fate of the International Catalogue may be, there is no justification for leaving the *Royal Society Catalogue* essentially incomplete, and thus nullifying a large part of the past labor and expenditure. However, with the general introduction of computer technology, hopefully the work will appear on-line and searchable.

The *Catalogue of Scientific Papers, 1800-1900* was itself superseded by the *International Catalogue of Scientific Literature* (14 vols., London, 1902-19), also prepared by the Royal Society of London, which is described in the next entry.

REFERENCES: Collison, *Encyclopaedias*, 1966: p. 46. • Sarton, *Guide to the History of Science*, 1952: p. 98.

### 4197. — English, etc., 1901-14.

International Catalogue | Of | Scientific Literature  
| First Annual Issue | G | Mineralogy | Including |

Petrology And Crystallography | [rule] | Published  
For The International Council | By The | Royal  
Society Of London | London: | Harrison and  
Sons, 45, St. Martin's Lane. | [rule] | Vol. XI: 1903  
(January).

14 vols. [VOL 1: 1903] 8°: [i]-xiii, [1], [1]-208 p. [VOL 2: 1904] 8°: [i]-viii, [1]-243, [1] p. [VOL 3: 1905] 8°: [i]-viii, [1]-359, [1] p. [VOL 4: 1906] 8°: [i]-viii, [1]-211, [1] p. [VOL 5: 1907] 8°: [i]-viii, [1]-279, [1] p. [VOL 6: 1908] 8°: [i]-viii, [1]-251, [1] p. [VOL 7: 1909] 8°: [i]-viii, [1]-291, [1] p. [VOL 8: 1910] 8°: [i]-viii, [1]-274 p. [VOL 9: 1911] 8°: [i]-viii, [1]-265, [1] p. [VOL 10: 1912] 8°: [i]-viii, [1]-237, [1] p. [VOL 11: 1914] 8°: [i]-viii, [1]-206 p. [VOL 12: 1915] 8°: [i]-viii, [1]-233, [1] p. [VOL 13: 1916] 8°: [i]-viii, [1]-171, [1] p. [VOL 14: 1917] 8°: [i]-viii, [1]-169, [1] p.

VERY SCARCE. This is an outgrowth of the *Royal Society Catalogue*, as it was felt that the scientific literature of the 20th century was too extensive to be dealt with by a single scientific society. Its organization was arranged at the initiative of the Royal Society by an international conference which met in London in 1896, then again in 1898, in 1900, etc. It was decided to divide science into seventeen branches:

- A. Mathematics.
- B. Mechanics.
- C. Physics.
- D. Chemistry.
- E. Astronomy.
- F. Meteorology (including Terrestrial Magnetism).
- G. Mineralogy (including Petrology and Crystallography).
- H. Geology.
- J. Geography (Mathematical and Physical).
- K. Paleontology.
- L. General Biology.
- M. Botany.
- N. Zoology.
- O. Human Anatomy.
- P. Physical Anthropology.
- Q. Physiology (including Experimental Psychology, Pharmacology, and Experimental Pathology).
- R. Bacteriology.

A large number of annual volumes were actually published from 1902 to 1916, but the gigantic undertaking was a victim of the first World War and of the national selfishness and loss of idealism which the War induced. The volumes published cover the scientific literature for the period from 1901 to about 1913.

The total publication includes 254 octavo volumes of which 14 were devoted to mineralogy. After World War I, the stock was sold to William Dawson and Sons London, who offered a complete sets for the price of £60 unbound, or £100 bound (November 1935). Unfortunately most of this stock was destroyed, by enemy action during the second World War and complete sets of these original volumes are now almost

unobtainable. However, a the complete set was reprinted in a condensed format [see note below].

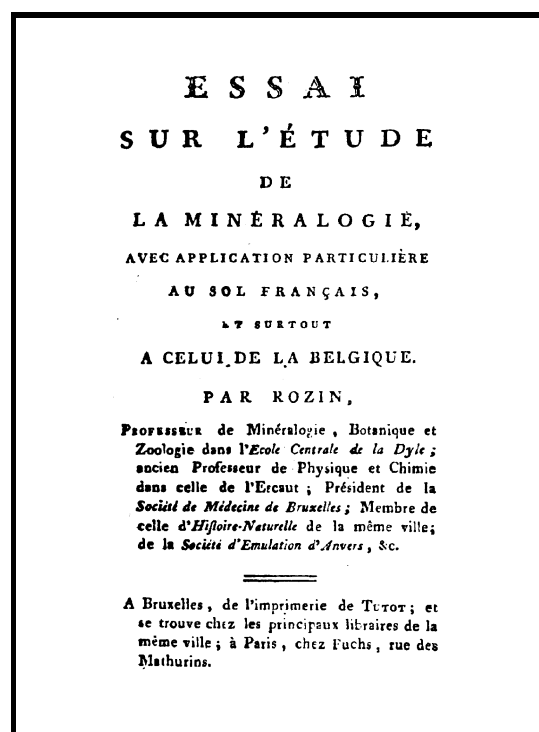
Section G that was devoted to mineralogy ran a total of 14 volumes. After the preliminaries, the text was divided into two principle sections. The first is an alphabetical author list of the literature while the second is a classified index to the literature. Each entry was provided a reference number and these extend to 22258 in the very last mineralogical entry.

Facsimile reprint, 1968: *International Catalogue of Scientific Literature*. New York, Johnson Reprint, 1968. By page reduction, four pages of each original volume have been reduced so that the complete 14 volumes are now reprinted in a single rather thick quarto sized volume.

REFERENCES: Sarton, *Guide to the History of Science*, 1952: p. 98-9.

#### ROZIN, A. *Belgian physician.*

Rozin was professor of mineralogy botany and zoology at the École Centrale de la Dyle and president of the Société de Médecine de Bruxelles.



ESSAI SUR L'ÉTUDE DE LA MINÉRALOGIE, 1803

#### 4198. — French, 1803.

Essai | Sur L'Étude | De | La Minéralogie, | Avec Application Particulière | Au Sol Français, | Et Surtout | A Celui De La Belgique. | Par Rozin, | [...7 lines of titles and memberships...] | [double rule] | A Bruxelles, de l'imprimerie de Tutot; et | se trouve chez les principaux libraires de la | même ville; à Paris, chez Fuchs, rue des | Mathurins.

12°:  $\pi^4$  A<sup>12</sup> B-N<sup>12</sup> O<sup>9</sup> a-c<sup>6</sup>; 188ℓ.; [8], [1]-332, j-xxxvj p. PAGE SIZE: 208 x 120 mm.

CONTENTS: [2 pgs], Title page, verso blank.; [6 pgs], "Avant-Propos."; [1]-332, Text.; j-xxxvj, "Table | Des Matières." [=index].

VERY SCARCE. A textbook describing economic mineralogy and its application to the nations of France and Belgium.

REFERENCES: LKG: XIV 707.

**RUDLER, Frederick William.** (BORN: July 1840; DIED: Tatsfield, Surrey, England, 23 January 1915) *English geologist.*

Rudler was appointed assistant curator of the Museum of Practical Geology, London in 1861. He became full curator in 1879 a position he held until 1902. Rudler was also in charge of the library. His personal collection of more than 2,000 volumes was bequeathed to the University of Wales Library at Aberystwyth, where from 1876-9 he had been mineralogical lecturer. Also at the University of Wales, he founded that institutions general museum of art.

REFERENCES: *American Journal of Science*: 3rd Series, 189 (1915), 326. • BBA: I 953, 244-247; II 1745, 99. • Cleavelly, *World Palaeontological Collections*, 1983: 251. • *Geological Magazine*: 2 (December 6, 1915), 142-4, portrait. • Lambrecht & Quenstedt, *Catalogus*, 1938: 371. • *Mineralogical Magazine*: 17 (1916), 368. • *Nature*: 94 (1915), 621. • *Quarterly Journal of Geological Society of London*: 59 (1903), xli-xliii & 71 (1915), lviii-lix. • Sarjeant, *Geologists*, 1980: 3, 2012. • *Science*: 41 (1915), 284. • WBI.

#### 4199. — English, 1896.

A | Handbook | To The | Museum Of Practical Geology | Jermyn Street, London, S.W. | [ornament] | London: | Printed For Her Majesty's Stationery Office, | By Eyre And Spottiswoode, | Printers To The Queen's Most Excellent Majesty, | [rule] | Sold Only At The Museum. | [rule] | 1896.

8°: [i]-viii, 167, [1] p. Wraps, with title printed on front cover. PAGE SIZE: 244 x 152 mm.

SCARCE. Excellent guide and description of the important geological, mineralogical and historical collections of the Museum of Practical Geology in London. This also contains descriptions of specimens from the Ludlam collection of minerals [which see next entry].

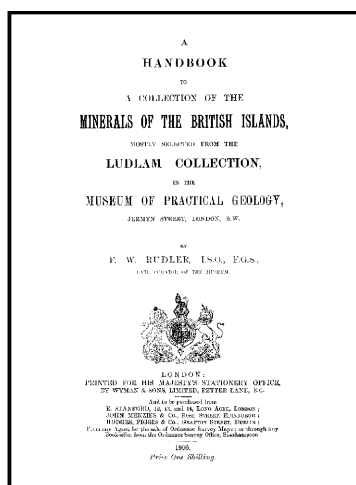
REFERENCES: Sinkankas, *Gemology Bibliography*, 1993: no. 5622.

#### 4200. — English, 1905.

A | Handbook | To | A Collection Of The | Minerals Of The British Islands, | Mostly Selected From The | Ludlam Collection, In The | Museum Of Practical Geology, | Jermyn Street, London, S.W. | By | F.W. Rudler, I.S.O., F.G.S., | Late Curator Of The Museum. | [ornament] | London: | Printed For His Majesty's Stationery Office, | By Wyman & Sons, Limited, Fetter Lane, E.C. | [short rule] | And to be purchased from | E. Stanford, 12, 13, and 14, Long Acre, London; | John Menzies & Co., Rose Street, Edinburgh; | Hodges, Figgis & Co., Grafton Street, Dublin; | From any Agent



## RÜLEIN VON CALW



HANDBOOK, 1905

for the sale of Ordnance Survey Maps; or through any | Bookseller from the Ordnance Survey Office, Southampton. | [short rule] | 1905. | Price One Shilling.

8°: [i]-x, [1]-241, [1] p., index. PAGE SIZE: 242 x 155 mm.

CONTENTS: [i-ii], Title page, verso blank.; iii, "Preface."—dated 21 December 1904.; [iv], Blank.; v-x, "Contents."; [1]-4, "Introduction."; [5]-234, Text.; [235]-241, "Index."; [1 pg], Blank.

VERY SCARCE. A handbook of English minerals with localities, chemical formulae, etc. It is based upon the large collection of English minerals brought together by Henry Ludlam [see note below], who bequeathed the collection to the Museum of Practical Geology in London and subsequently incorporated into the British Museum in 1997. The introduction gives an account of the museum.

**Henry Ludlam.** (BORN: 14 October 1824; DIED: London, England, 23 June 1880) *English mineral collector.* The youngest of a large family Ludlam studied architecture, but became instead a land surveyor, and subsequently a hosier. However the passion of his life was mineralogy and he amassed one of the finest private collections ever assembled in England, incorporating those made by Charles Hampden Turner which in turn contained those of JACOB FORSTER, HENRY HEULAND and William Nevill, which included that of diplomat WILLIAM GARROW LETTSOM. A wealthy man, Ludlam made extravagant purchases at mineral auctions and was a good customer of the countries mineral dealers. He died unmarried, bequeathing his large mineral collection to the Museum of Practical Geology, London, which has subsequently been incorporated into the Natural History Museum, London. He was a Fellow of the Geological Society and a member of the Mineralogical Society. The mineral "Ludlamite" was named in his honor by Richard Talling in 1876.

REFERENCES: BL: [7111.c.5.]. (Ludlam) BBA. • Boase, *Modern English Biography*, 1892-1921. • Cleavelly, *World Palaeontological Collections*, 1983: 189. • DNB. • Embry, *Foreword*, 1977: xxi. • *Geological Magazine*: 7 (December 2, 1880), 336. • *Mineralogical Magazine*: 4 (1881), 132. • *Proceedings of the Geological Society, London*: (1880-1881), 47-8. • *Quarterly Journal of Geological Society of London*: 27 (1871), 47. • Sarjeant, *Geologists*, 1980: 3, 1611.

**RÜLEIN VON CALW, Ulrich.** (BORN: c1467; DIED: Leipzig, Germany, 1523) *German physician.*

Ulrich Rülein von Calw [or Kalbe] was appointed the health officer of Freiberg in 1497, before being elected a member of the city council in 1509 and mayor in 1514 and 1519. He is thought to have worked as a mine surveyor, mathematician, astronomer and physician.

REFERENCES: DBA: II 1107, 182-183. • Hirsch, *Biographisches Lexikon*, 1884-8. • Lüdemann, K., "Ulrich Rülein von Calw, der Verfasser des ersten deutschen Buches über der Bergbau," *Mitt. Freiberg. Altertumsver.*, 64 (1934), 67-75, 4 figs. • Perper, W., "Ulrich Rülein von Calw und Bergbuchlein: mit Urtext-Faksimile und Übertragung des Bergbuchleins von etwa 1500 und Faksimile der Postschrift von 1521," *Freiberger Forsch. Heft, Kultur und Technik*, D. 7 (1955), 215 p., 80 figs. • Sachsenweger, M., "Berühmte Freiburger," *Glückauf, Z. Erzgeb.-Ver.*, 57 (1937), 155-60, 2 figs. • Sarjeant, *Geologists*, 1980: 3, 2014. • Schmidt, O.E., "Ulrich Rülein von Calw," *Mitt. Landesver. Sächs. Heimatschutz*, 26 (1937), 111-4. • WBI.



Ein nutzlich bergbuchl̃ey, c1505

4201. — German, c1505 [First edition].

Ein nutzlich bergbuchl̃ey | [Rectangular ornamental woodcut scene showing miners working a vein of ore].

8°: 24l., without signature, foliation or pagination. Large woodcut on the title and 12 small woodcuts in the text. No date or publisher is indicated. PAGE SIZE: 140 x 196 mm.

EXTREMELY RARE. This exceedingly rare, earliest known edition of the *Bergbüchlein* is recognized as the first printed book in the literature of mining. It was reprinted several times in the 16th Century and after

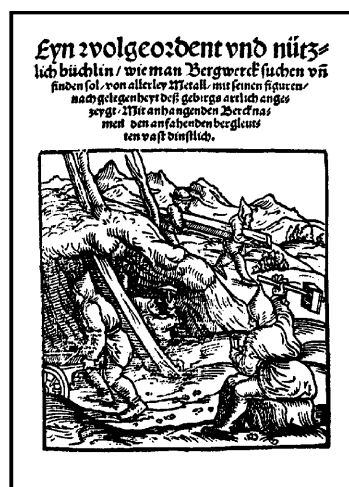
[which see subsequent entries], and is an important precursor of Georgius Agricola's [q.v.] celebrated *De Re Metallica* (1st ed., Basileæ, 1556). To a smaller degree it also influenced Vannuccio Biringuccio's *De la Pirotechnia* (1st ed., Venetia, 1540), as well as the later works on mining by Lazarus Ercker and Georg Engelhardt von Löbnyess.

The *Bergbüchlein* is a practical handbook designed for beginners rather than experts in the field of mining. The booklet comprises instructions from Daniel, a skilled miner, to Knappius, "his mining boy." In ten chapters, the work contains an introduction to mining geology, touches on some theories of the generation of ores, which is of mineralogical interest, introduces and defines many of the important technical terms of the profession, discusses the ores of the seven most important metals, and how to prospect for them. Not all the information contained in its pages is based on fact or even first hand knowledge of the author but enough of the material was sufficiently practical for Agricola to have used it as a reference book and even copied certain passages verbatim in writing his more comprehensive work. From references he makes in *De Re Metallica* Agricola believed the author of the *Bergbuchlein* to have been "Calbus of Freiberg, a well-known doctor," i.e., Ulrich Rülein von Calw. Indeed Rülein is accepted by present-day scholarship as the author, although most editions of the *Bergbuchlein* were published anonymously.

The place and date of this edition is, like its authorship, cloaked in mystery. However, almost without exception experts in the field of mining literature and German literature of this period believe this book to be the earliest edition known. Van Dechen (1885) dated this edition as Augsburg, 1505; Darmstädter (1926) between 1505 and 1510, printed "probably" by Martin Landsberg of Leipzig; Sisco and Smith (1949) agree with this determination signifying it "Edition A"; while Pieper (1955), in a subsequent study, says "about" 1500. Only three copies of the work are presently known to exist. One is in the Bibliothèque Nationale, Paris, one at the Staats- und Stadtbibliothek, Augsburg (lacking leaves 23-26) and one other, listed by the San Francisco bookseller John Howell in catalog number 40 (1970), item 6. The current location of this last copy is unknown.

REFERENCES: Baumgärtel, H., *Vom Bergbuchlein zur Bergakademie. Zur Entstehung der Bergbauwissenschaften zwischen 1500 und 1765/1770. Mit 16 Bildern.* Leipzig, Deutscher Verlag für Grundstoffindustrie, 1965. 169 p. [Published as: *Freiberger Forschungshefte*, D50]. • Darmstädter, *Berg-Büchlein*, 1926: 13-4 & 61-2. • Fischer, *Gesteins- und Lagerstättenbildung*, 1961: pp. 315-8. • GW: 3, 641. • Hoover & Hoover, Agricola, "*De Re Metallica*", 1912. • Pellechet, *Catalogue General des Incunables*, 1970: no. 2002. • Pieper, W., *Ulrich Rülein von Calw und sein Bergbüchlein*. Berlin, 1955. • Sisco & Smith, *Bergwerk- und Probirbüchlein*, 1949: [Edition A: title page reproduced]. • Sisco, A., "How Old is the Bergbüchlein?," *Isis*, 43 (1952), 337-43. • Van Dechen, *Das Älteste Deutsche Bergwerkbuch*, 1885.

**4202. 2nd edition, 1518:** Eyn rvolgeordent vnd nütz= | lich büchlin / wie man Bergwerck suchen vñ | finden sol / von allerley Metall/ mit seinen figuren/ | nach gelegenbeyt



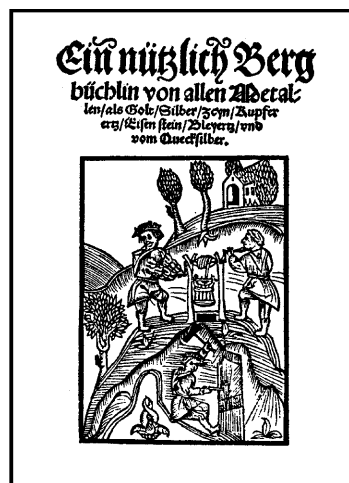
EYN RVOLGERDENT, 1518

deß gebirgs artlich ange= | zeygt/ Mit anhangenden Berck na= | men den anfähenden bergleut= | ten vast dinstlich. | [Square ornamental woodcut scene showing miners at work].

8<sup>o</sup>: 24<sup>l</sup>. Without foliation, signatures or pagination. Large woodcut on the title and 12 small woodcuts in the text. COLOPHON: Gedruckt zu Wormbs bei Peter Schöfern / vñ volendet am fünfften tag Aprill. M.D.XVIII.

VERY SCARCE. There are slight differences between this work and the undated first edition. A brief introduction that occurred before Daniel and the young miner start their dialog has been dropped; the title page and its illustration has been changed; all of the illustrations have been redrawn, and brief instructions on how they should be colored has been included. A six page glossary of mining terms has been appended, although this glossary deals with different aspects of mining than is contained in the text. The text is the same in both editions, in spite of minor omissions in the 1518 issue. These changes were the result of editorial deletions and corrections.

REFERENCES: Darmstädter, *Berg-Büchlein*, 1926. • Hoover & Hoover, Agricola, "*De Re Metallica*", 1912. • Sisco & Smith, *Bergwerk- und Probirbüchlein*, 1949: [Edition B: title page reproduced].



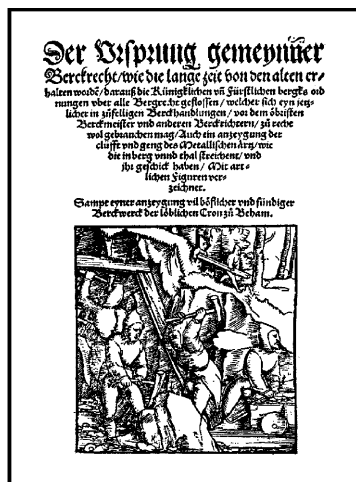
BERG BÜCHLIN, 1527

## RÜLEIN VON CALW

**4203. 3rd edition, 1527:** Ein nützlich Berg | büchlin von allen Metal= | len / als Golt / Silber / Zeyn / Kupfer | ertz / Eisen stein / Bleyertz / vnd | vom Quecksilber. | [Ornamental woodcut scene showing a miner and two others working an ore windlass].

8°: 24 $\ell$ . Without foliation, signatures or pagination. Large woodcut on the title and 12 small woodcuts in the text. COLOPHON: Gedruckt zu Effurd / durch Johan Loersfelt. 1527. VERY SCARCE.

REFERENCES: Darmstädter, *Berg-Büchlein*, 1926. • Hoover & Hoover, *Agricola*, "De Re Metallica", 1912. • Sisco & Smith, *Bergwerk- und Probirbüchlein*, 1949: [Edition C: title page reproduced].



DER VRSPRUNG, c1530

**4204. 4th edition, c1530:** Der Vrsprung gemeynner | Berckrecht / wie die lange zeit von den alten er= | halten wordē / darauß die Küniglichen vñ Fürstlichen bergs ord | nungen vber alle Bergre:ht geschlossen / welcher sich eyn jetz= | licher in zufälligen Berckhandlungen / vor dem öbristen | Berckmeister vnd anderen Berckrichtern / zñ recht | wol gebrauchen mag / Auch ein anzeygung der | clüfft vnd geng des Metallischen ärtz/ wie | die in berg vnd thal streichent/ vnd | ihr geschick haben / Mit art= | lichen Figuren ver= | zeichner. | Sampe eyner anzeygung vil bölicher vnd fündiger | Berckwerck der löblichen Cron zu Beham. | [Square ornamental woodcut scene showing miners working a vein].

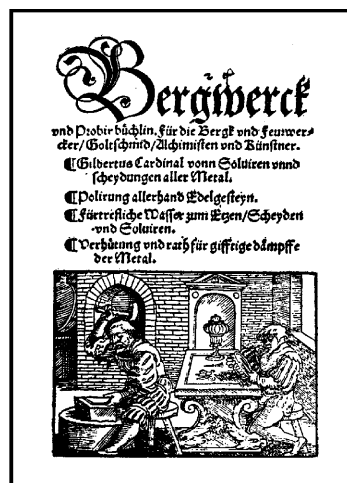
8°: 44 $\ell$ . Large woodcut on the title. No date indicated. COLOPHON: Durch Johan Haselberger auss der Reichenaw / in druck verordnet.

VERY SCARCE. The *Bergbüchlein* is included with other tracts concerning mining in this collected work. The first portion consists of a treatise discussing the old mining laws of Bohemia, Moravia, Meissen, etc. The first page of the *Bergbüchlein* contains an abstract of the omitted original dialogue that serves as an introduction to the ten chapters of the text. The glossary of mining terms is present, and is followed by three pages listing the ores and mines of Bohemia. Although this edition shows no place of publication, Von Dechen (1885) and Sisco & Smith (1949) build a case for dating it around 1530.

REFERENCES: Darmstädter, *Berg-Büchlein*, 1926. • Sisco & Smith, *Bergwerk- und Probirbüchlein*, 1949: [Edition D: title page reproduced].

Corpus juris & systema rerum metallicarum, oder: Neu-verfasstes Berg-Buch, bestehend aus allerhand, so alten als neuern collectaneis von Bergwercks-Sachen, ... (Frankfurt am Mayn, 1698).

See: *Corpus Juris & Systema*.



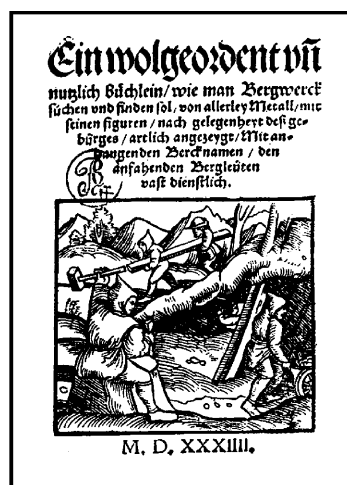
BERGWERCK, 1533

**4205. 5th edition, 1533:** Bergwerck | vnd Probirbüchlin. für die Bergk vnd ferwer= | cker / Goltschmid / Alchimisten vnd Künstner. | [ornament]Silbertus Cardinal vonn Soluiren vnnnd | scheydungen aller Metal. | [ornament]Polirung allerhand Edelgesteyn. | [ornament]Fürtreffliche Wasser zum Etzen / Scheyden | vnd Soluiren. | [ornament]Verhütung vnd rath für gifttge dämpffe | der Metal. | [Ornamental woodcut scene showing goldsmiths at work].

8°: 39 $\ell$ . Large woodcut on the title. COLOPHON: Zu Franckfurt am Meyn / bei Christiau Egenolph. Im Herbstmon / Des Jars M.D.XXXIII.

VERY SCARCE. This book contains both the *Bergwerck Buchlein* and another early work on assaying. The complete text of the *Büchlein*, without the glossary of mining terms is reprinted.

REFERENCES: Darmstädter, *Berg-Büchlein*, 1926: 70-2. • Honeyman Sale: 6:2540. • Hoover Collection: no. 117. • Norman Catalog: 1, 194. • Norman Sale Catalog: 1:165. • Sisco & Smith, *Bergwerk- und Probirbüchlein*, 1949: [Edition E: title page reproduced].



M, D, XXXIII.

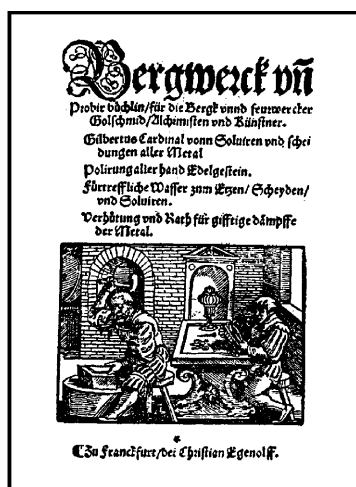
EIN WOLGEORDENT, 1534

**4206. 6th edition, 1534:** Ein wolgeordent vñ | nutzlich Büchlein/ wie man Bergwerck | suchen vnd finden sol, von allerley Metall/ mit | seinen figuren / nach gelegenbeyt des ge= | bürges / artlich angezeygt / Mit an= | hangenden Bercknamen / den | anfahren den Bergleuten | vast dienstlich. | [Ornamental woodcut scene showing miners entering a mine.] | M. D. XXXIII.

8°: [55] p. Large woodcut on the title. COLOPHON: Getruckt zu Augspurg durch Heinrich Steyner / Am 3. tag Octobris / Im M.D.XXXIII.

VERY SCARCE. According to Sisco & Smith (1949), this edition was reprinted by J.F. Lempe in *Magazin der Bergbaukunde* [see 9, 21–56] without comments or illustration.

REFERENCES: Darmstädter, *Berg-Büchlein*, 1926. • Sisco & Smith, *Bergwerk- und Probirbüchlein*, 1949: [Edition F: title page reproduced].



BERGWERCK, 1535

**4207. 7th edition, 1535:** Bergwerck vñ | Probir büchlin/für die Bergk vnnnd feurwercker | Golschmid / Alchimisten vnd Künstner. | Silbertus Cardinal vnnn Soluiren vnd schei | dungen aller Metal | Polirung alter hand Edelgestein. | Fürtressliche Wasser zum Erzen/ Scheyden/ vnd Soluiren. | Verhütung vnd Kath für gisstige dämpffe | der Metal. | [Ornamental woodcut scene showing goldsmiths at work] | \* | [ornament]Zu frantzfurt / bei Christian Egenolff.

8°: 36 $\ell$ . Large woodcut on the title. COLOPHON: Zu Frantzfurt am Meyn / bei Christian Egenolph An. M.D.XXXV. VERY SCARCE.

REFERENCES: Darmstädter, *Berg-Büchlein*, 1926. • Sisco & Smith, *Bergwerk- und Probirbüchlein*, 1949: [Edition G: title page reproduced].

**4208. 8th edition, 1539:** Ein wolgeordent vñ | nutzlich büchlin wie man Bergwerck | süchen vnd finden sol / von allerley Metall / mit | seinen figuren / nach gelegennheyt, daß ge | bijrges / artlych angezeygt / Mit an= | hangenden Bercknamen / den | anfahren den Bergleuten | vast dienstlich. | [Ornamental woodcut scene showing miners entering a mine] | M.D.XXXIX.

8°: ?? $\ell$ . Large woodcut on the title. COLOPHON: Gedruckt zu Augspurg durch Heinrich Steyner / Am j. tag Augusti / Im M.D.XXXIX. Jar.

VERY SCARCE. According to Sisco & Smith (1949), this edition was reissued by Hans Von Dechen in his article, "Das älteste deutsche Bergwerksbuch" [see *Zeitschrift für Bergrecht*, 26 (1885), 219–62]. This article contains technical annotations and an extensive bibliographic discussion.

REFERENCES: Darmstädter, *Berg-Büchlein*, 1926. • Sisco & Smith, *Bergwerk- und Probirbüchlein*, 1949: [Edition H: title page reproduced].

**4209. English transl., 1949:** [Contained within a double rule box:] Bergwerk= | und | Probirbüchlein | A translation from the German of the | Bergbüchlein | a sixteenth-century book on mining geology, by | Anneliese Grünhaldt Sisco | and of the | Probirbüchlein | a sixteenth-century work on assaying, by | Anneliese Grünhaldt Sisco | and | Cyril Stanley Smith | with technical annotations and historical notes. | New York | The American Institute of Mining and | Metallurgical Engineers | 1949.

8°: [1]-196 p., index, biblio., illus. PAGE SIZE: 204 x 130 mm.

CONTENTS: [1-2], Half title page, "The Seeley W. Mudd Series | Bergwerk= und Probirbüchlein | Publication Sponsored By The | Seeley W. Mudd Memorial Fund," verso "The Seeley W. Mudd Series | ..."; [3-4], Title page, verso "Copyright, 1949 by the | American Institute of Mining and Metallurgical Engineers | (Incorporated) | ..."; [5]-6, "Foreword"—signed A.B. Parsons, December 1948.; [7]-10, "Introduction"—dated October 1948.; [11], "Acknowledgments."; [12], Blank.; [13], "Contents."; [14], Blank.; [15]-66, Text associated with the *Bergbüchlein*.; [67-68], Blanks.; [69]-190, Text associated with the *Probirbüchlein*.; [191]-196, "Index."

VERY SCARCE. A modern translation by Anneliese Grünhaldt Sisco [see note below] of the *Bergbüchlein* and the *Probirbüchlein*, which was sometimes published with it. Included are extensive bibliographic and historic notes about the early editions of both works, together with facsimile reproduction of the early title pages.



RUMPHIUS

**RUMPF (Rumphius), Georg Eberhard.** (BORN: 1637; DIED: 1706) *Dutch naturalist.*

George E. Rumphius (1628-1702), the blind "Plinius Indicus", had been in the service of Dutch East-India Company as merchant and was stationed at the island of Ambon where he started researching systematically flora and fauna of this island. He described and drew all he saw and sent his manuscripts over to Amsterdam. His most famous work (2 Dutch, 2 Latin and one German edition) is *D'Amboinische Rariteitskamer*, which was published after his death in 1705 in Amsterdam. This work was and is especially interesting and useful for the owners (very popular at the time) cabinets of natural curiosities, the forerunner of the museum of today. Faraway from every centre of intellectual civilisation he was not literally

## RUMPF

isolated. He corresponded with many scholars in the Indies and Europe like Rhijne, Cleyer, Mentzel, Valentini etc.

REFERENCES: ADB. ● ????, "Rumphius' life and work" (pp. xxxv-cxii) in: *The Ambonese Curiosity Cabinet*, 1999. ● Ballintijn, G.E., *Rumphius, de blinde ziener van Ambon*. Utrecht, W. de Haan, 1944. vii, 192 p. ● Bridson, *History of Natural History*, 1994: 138. ● DBA: I 1067, 392-393. ● Jöcher, *Gelehrten-Lexikon*, 1750-51. ● Koloniaal Museum te Haarlem, *Rumphius Gedenboek, 1702-1902*. Amsterdam, J.H. de Bussy, 1902. viii, [2], 221 p., 6 plates. ● Poggendorff: 2, cols. 720-1. ● WBI. ● Wit, H.C.D. de, *Rumphius memorial volume*. Baarn, Hollandia, 1959. [6], v, 462 p., 27 plates..



D'AMBOINSCHER RARITEITKAMMER, 1705

### 4210. — Dutch & Latin, 1705 [First edition].

[In black:] D'Amboinsche | [in red:] Rariteitkamer, | [in black:] Behelzende eene Beschryvinge van allerhande | zoo weeke als harde | [in red:] Schaalvijschen, | [in black:] te weeten raare | [in red:] Krabben, Kreeften, | [in black:] en diergelyke Zeedieren, | als mede allhande | [in red:] Hoorntjes en Schulpfen, | [in black:] die men in d'Amboinsche Zee vindt: | Daar beneven zommige | [in red:] Mineraalen, Gesteenten, | [in black:] en foorten van Aarde, die in d'Amboinsche, en zom- | mige omleggende Eilanden gevonden worden. | Verdeels in drie Boeken, | En met nodige Printverbeeldingen, alle naar 't leven getekent, voorzien. | Beschreven door | [in red:] Georgius Everhardus Rumphius, | [in black:] van Hanauw,

Koopman en Raad in Amboina, mitsgaders Lid in d' Academiæ Curiosorum Naturæ, in 't Duitse Roomsche Ryk opgerecht, onder den naam van | [in red:] Plinius Indicus. | [in black, vignette] | [in red:] T'Amsterdam, | [in black, rule] | [in black:] Gedrukt by François Halma, Boekverkoper | [in red:] in Konstantijn den Grooten. | [in black:] 1705.

2°: \*-\*\*\*\*4 \*\*\*\*\*2 A-Bbb4 (includes the engraved title page in the collation sequence); 207L; [32], 340, [42] p. Engraved title page, engraved frontispiece (portrait of Rumpf), 4 engraved vignettes and 60 engraved plates (numbered I-LX). Title page in red and black PAGE SIZE: 400 x 260 mm.

CONTENTS: [2 pgs/=\*1rv], Half title page, "D'Amboninsche, | Rariteitkamer, | Of Eene Beschryvinge Van Allerhande | Schaalvijschen; | Benevens De Voornaamste | Hoorntjes en Schulpfen, | Als Ook Zommige, | Mineraalen, Gesteenten, Enz. | Door | Georgius Everhardus | Rumphius.", verso blank; [2 pgs/=\*2rv], Engraved title page, verso blank; [2 pgs/=\*3rv], Title page, verso blank; [5 pgs/=\*4r-\*\*\*2r], Dedication to Hendrik D'Acquet, signed Georgius Everhars Rumphius, 1 September 1699; [6 pgs/=\*\*2v-\*\*\*1r], Opdragt continued, with text beginning, "Edele Achtbaren Heer."—signed François Halma, 1704.; [6 pgs/=\*\*\*1v-\*\*\*4r], "Voorreden | Des Drukkers | Aan Den | Lezer, Dien hy alle Heil wenscht."—signed F. Halma, 1704.; [2 pgs/=\*\*\*4v-\*\*\*\*1r], "Tafel | Der | Hooftdeelen | Des | Eersten Boeks, | ..." [=list of plates to part one]; [2 pgs/=\*\*\*\*1v-\*\*\*\*2r], "Tafel | Der | Hooftdeelen | Des | Tweeden Boeks, | ..." [=list of plates to part two]; [2 1/4 pgs/=\*\*\*\*2v-\*\*\*\*3v], "Hier is Bygevoegt | Eene Beschryvinge | ..." [2 3/4 pgs/=\*\*\*3v-\*\*\*\*4v], "Tafel | Der | Hooftdeelen | Des | Derden Boeks, | ..." [=list of plates to part three]; [3 pgs/=\*\*\*\*\*1r-\*\*\*\*\*2r], "Beschryving | Van het Stuk | Graauwen Amber, | ..." [1 pg/=\*\*\*\*\*2v], Blank; [Portrait of Rumphius.]; [1]-340/(=A-Vv2v), Text of three books; [41 pgs]/(=Vv3r-Bbb4r), "Blad-Wyser | ..." [=index.]; [1 pg/=Bbb4v], Blank.

RARE. The 60 magnificent copper engravings may be separated into the following categories: crabs (12), sea-urchins & starfish (4), snails & muscles (33), and petrifications and minerals (11). There is also an engraved title page, a beautiful engraved frontispiece portrait showing Rumpf and 4 engraved vignettes.

The best copy ever available of this natural history classical work on marine life, geology and mineralogy of the area of the Molucca Islands in the Indonesian Archipelago. Only two colored copies of this book are known, the one in the Library of Artis, Amsterdam. This copy has been coloured by Maria Sybilla Merian, as is written on the half title by the former owner A. Vosmaer (1720-1799), the director of the princely zoological gardens at Het Klein Loo near The Hague. At an auction in 1779 the Vosmaer copy fetched FL. 240, which was a serious amount of money for a book at that time.

Maria Sybilla Merian (1647-1717). She was highly interested in flowers, insects and other aspects of nature, specially those which came from exotic areas as e.g; Surinam. in our copy the half-title and some plates bear manuscript annotations in German. We are still investigating the name of the author of these scholarly annotations. Anyway the German

traveller and burgomaster of Frankfurt Z.C. Von Uffenbach (1683-1735) visited Maria Sybilla Merian in Amsterdam on February 23, 1711. He recorded this visit enthusiastically in his diary, which was published in 1753-54. He also mentions the coloured copy of d'Amboinsche Rariteitkamer.

**English, 1999:** *The Ambonese Curiosity Cabinet*. New Haven [Conn.]; London, Yale University Press, c1999. cxii, 567 p., illus., maps. [Includes bibliographical references (p. 377-549); ISBN 0300075340].

**Maria Sybilla Merian.** (BORN: Frankfurt am Main, Germany, 1647; DIED: Amsterdam, The Netherlands, 13 January 1717) *German/Dutch artist*. Merian was the natural daughter of a publisher and engraver, and the stepdaughter of a still-life painter. Not surprisingly, she took up flower painting and engraving. She also took up with an artist, but it didn't last. Unhappy in her marriage, she moved her daughters to a religious community in the Dutch province of Friesland, then later to Amsterdam. There she made powerful friends and eventually received funds from the government to journey with her younger daughter to Dutch controlled Surinam in South America. After a cramped, dirty sea voyage, she landed in a hot, wet-and-dry climate. Undaunted, she pursued her passions for the next two years, painting and insects. She built large collections, which she took back to Amsterdam when she was forced to return in 1701 due to illness. These collections surpassed all others and caused great enthusiasm among the city's scientists.

REFERENCES: ????, "Rumphius' life and work" (pp. xxxv-cxii) in: *The Ambonese Curiosity Cabinet*, 1999. • Cobres, *Deliciae Cobresianae*, 1782: [Corbes had a copy, purchased at the Bozenhard sale, in which the plates were colored by hand.]. • LKG: XIV 866. • Murray, *Museums*, 1904: 1, 146 & 153, 3, 146. • Nissen (ZBI): no. 3518. • Schröter's *Journal für die Liebhaber*: 2 (177?), 8. • Stack, H.L. and J. Goud, "Rumphius and the 'Amboinsche Rariteitkamer'", *Vita Marina*, 44 (1996), nos. 1-2, 29-39. [Describes a recently found colored copy.]. • Wilson, *History of Mineral Collecting*, 1994: 228. • Wood, *Literature of Vertebrate Zoology*, 1931: p. 545. (Merian) Aa, *Biographisch Woordenboek*, 1852-78. • ADB. • BAB: 459, 7-41. • DBA: I 829, 113-121; 829, 203-250. • Hirsching, *Historisch-literarisches Handbuch*, 1794-1815. • Jöcher, *Gelehrten-Lexikon*, 1750-51. • Kobus, *Biographisch Woordenboek*, 1886. • Nagler, *Neues allgemeines Künstler-Lexikon*, 1835-52. • Thieme & Becker, *Allgemeines Lexikon*, 1907-50. • WBI. • Will, *Nürnbergisches Gelehrten-Lexikon*, 1755-1808. • Wurzbach, *Biographisches Lexikon Österreich*, 1856-91.

**4211. 2nd edition, 1741:** D'Amboinsche | Rariteitkamer, | Behelzende eene Beschryvinge van allerhande | zoo weeke als harde | Schaalvisschen, | te weeten raare | Krabben, Kreeften, | en diergelyke Zeedieren, | als mede allhande | Hoorntjes en Schulpden, | die men in d'Amboinsche Zee vindt: | Daar beneven zommige | Mineraalen, Gesteenten, | en foorten van Aarde, die in d'Amboinsche, en zommige omleggende Eilanden gevonden worden. | Verdeels in drie Boeken, | En met nodige Printverbeeldingen, alle naar 't leven getekent, voorzien. | Beschreven door | Georgius Everhardus Rumphius, | van Hanauw, Koopman en Raad in Amboina, mitsgaders Lid van het Kyzerlyke kweekschool der | onderzoekers van de Natuurkunde in 't Duitsche Roomsche Ryk opgerecht onder den naam van | Plinius Indicus. | [vignette] | T'Amsterdam, | [rule] | By Jan Roman de Jonge, Boekverkoper, 1741.

2°: [24], 340, [44] p., frontispiece (portrait), 60 plates. PAGE SIZE: 390 x ?? mm.

VERY SCARCE. Added engraved t.p.: De Amboinsche rariteit kamer / door G.E. Rumphius. 't Amsterdam : Gedrukt by Francois Halma ..., 1705. "Beschryving en verdeling der Amboinsche hoornen en schulpden, door den Heer Sipman": p. 167-193.



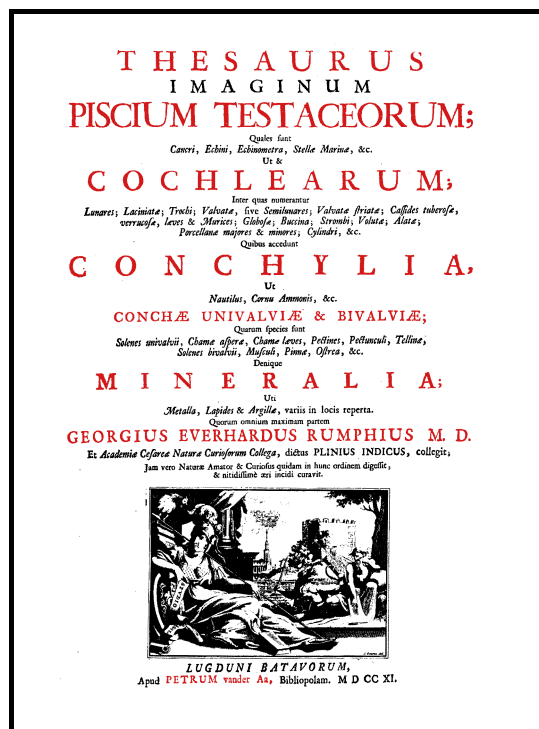
D'AMBOINSCHER RARITEITKAMER, 1741

REFERENCES: Murray, *Museums*, 1904: 3, 146. • Ward & Carozzi, *Geology Emerging*, 1984: no. 1937.

**4212. Latin transl., 1711:** [In red:] Thesaurus | [in black:] Imaginum | [in red:] Piscium Testaceorum; | [in black:] Quales sunt | Cancrini, Echini, Echinometra, Stellæ Marinæ, &c. | Ut & | [in red:] Cochlearum; | [in black:] Inter quas numerantur | Lumares; Laciniatæ; Trochi; Valvatæ; sive Semilumares; Valvatæ striatæ; Cassides tubersæ, | verrucosæ, læves & Murices; Globosæ; Buccina; Strombi; Volutæ; Alatæ; | Porcellanæ majores & minores; Cylindri, &c. | Quibus accedunt | [in red:] Conchylia, | [in black:] Ut | Nautilus, Cornu Ammonis, &c. | [in red:] Conchæ Univalviæ & Bivalviæ; | [in black:] Quarum species sunt | Solenes univalvi, Chamæ asperæ, Chamæ læves, Pectines, Pectunculi, Tellinæ, | Solenes bivalvi, Musculi, Pinnæ, Ostrea, &c. | Denique | [in red:] Mineralia; | [in black:] Uti | Mettall, Lapides & Argillæ, variis in locis reperta. | Quorum omnium maximam partem | [in red:] Georgius Everhardus Rumphius M.D. | [in black:] Et Academiæ Cesariæ Naturæ Curiosorum Collega, dictus Plinius Indicus, collegit; | Jam vero Naturæ Amator & Curiosus quidam in hunc ordinem digessit, | & nitidissimè æri incidi curavit. | [vignette] | Lugduni Batavorum, | Apud [in red:] Petrum vander Aa, [in black:] Bibliopolam. M D CC XI.

2°: \*2 A-D<sup>2</sup> a-z<sup>1</sup> aa-zz<sup>1</sup> aaa-ooo<sup>1</sup> Ppp-Qqq<sup>2</sup>; 80ℓ.; [6], 1-15, [1] p., Plates I-LX, No. LXI-No. LXVIII p., frontispiece, additional engraved title page. Title page in red and black. The plates are included in the printer's collation sequence. PAGE SIZE: 420 x 265 mm.

CONTENTS: [Engraved title page.]; [Frontispiece.]; [2 pgs], Title page, verso blank.; [1 pg], "Naturæ Amanti Curioso."; [1 pg], "Explicatio."; 1-15, "Denominationes | Figurarum, | Quæ in hisce Tabulis continentur." [engraved printer's device, p. 15]; [1 pg], Blank.; Plates No. I to No. LX.; No. LXI-No. LXVIII, "Index | vocum In Hoc Thesaurio Occurrentium." [=indexes in Latin and



THESAURUS IMAGINUM PISCUM, 1711

Dutch].

VERY SCARCE. First Latin edition. Reproduction of the plates of the author's *D'Amboinsche Rariteitkamer* (Amsterdam, 1705), with Latin preface, contents of plates, and indexes. The 8 pages of indexes at end are numbered LXI–LXVIII.

REFERENCES: LKG: XIV 866a\*. • Murray, *Museums*, 1904: 3, 146. • Schröter's *Journal für die Liebhaber*: 3 (17??), 104. • Ward & Carozzi, *Geology Emerging*, 1984: no. 1935.

**4213. Latin transl., 1739:** *Thesaurus imaginum piscium testaceorum : quales sunt cancri, echini, echinometra, stellæ marinæ, &c. : ut et cochlearum ... quibus accedunt conchyliarum, ut nautilus, cornu Ammonis, &c. : conchæ univalviæ et bivalviæ ... denique mineralia ... quorum omnium maximam partem Georgius Everhardus Rumphius ... collegit ; jam vero naturæ amator & curiosus quidam in hunc ordinem digessit, & nitidissimè æri incidi curavit. Hagæ-Comitum : Apud Petrum de Hondt, 1739.*

2°: [6], 14, [8] p. frontispiece (portrait), 60 plates (numbered I–LX). PAGE SIZE: 420 x ?? mm.

VERY SCARCE. Added t.-p., engr. 1st edition: *Lugduni Batavorum, 1711*. A reproduction of the plates of the author's *D'Amboinsche rariteitkamer*, Amsterdam, 1705, with Latin preface, content of plates, and indexes. The 8 pages of indexes at end are numbered lxi–lxvii.

REFERENCES: Murray, *Museums*, 1904: 3, 146. • Ward & Carozzi, *Geology Emerging*, 1984: no. 1936.

**4214. German transl., 1766:** *G.E. Rumphius .. Amboinsche Raritäten-Kammer ... Aus dem Holländischen übersetzt von P.L.S. Müller, ... und ... vermehrt von J.H. Chemnitz. [With an introduction by J.A. Cramer]. Wien, 1766.*

2°: [18], cxxviii, [2], 200, [2] p., 33 folding plates (numbered 17–49; showing sea shells). Engraved title page. Printed title in red and black. PAGE SIZE: 250 x 350 mm.

VERY SCARCE. Translation by Philipp Ludwig Status Müller of *D'Amboinsche Rariteitkamer* (2nd ed., Amsterdam, 1711). It includes additions by J.H. Chemnitz

and a new introduction by JOHANN ANDREAS CRAMER. The plates numbered 17 to 49 show sea shells.

REFERENCES: LKG: XIV 886. • Murray, *Museums*, 1904: 3, 146. • Nissen (ZBI): no. 3519.

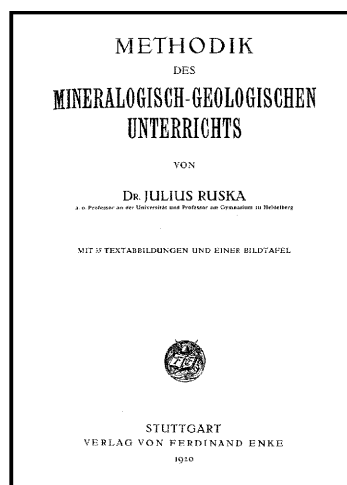
**4215. — Latin, 1754.**

*Verhandeling de Zii – Horenkeus en Zee – Gewassen in en omstrekt Amboina ... Amsterdam, 1754.*

8°: VERY SCARCE.

German transl., 1773: German translation by P.L.S. Müller. Wien, 1773.

REFERENCES: LKG: XIV 867b.



METHODIK, 1920

**RUSKA, Julius.** (BORN: Buehl, Baden, Germany, 9 February 1867; DIED: Schramberg, Schwarzwald, Germany, 12 February 1949) *German orientalist, physician, naturalist & chemist.*

REFERENCES: *Archives Internationales d'Histoire des Sciences*: 3 (1950), 912–5. • DBA: II 1112, 16–24. • *Isis*: 40 (1949), p. ?? • *Osiris*: 5 (1938), 5–40, portrait. • Poggendorff: 6, 2247–8 & 7, pt. 3, 860. • WBI.

**4216. — German, 1910.**

*Leitfaden der Mineralogie. Eine Einführung in das Verständnis der Erscheinungen und die Kenntniss der Gebilde des Mineralreichs.* Leipzig, Verlag von Quelle & Meyer, 1910.

8°: 144 p., 9 color plates (minerals), 215 text illus. VERY SCARCE.

REFERENCES: NUC.

**4217. — German, 1913.**

*Grundzüge der Mineralogie.* Leipzig, Verlag von Quelle & Meyer, 1913.

8°: 94 p., 132 illus., 3 colored plates. Subtitle: *1. Teil: Eine Einführung in das Verständnis der Gebilde des Mineralreichs.* VERY SCARCE.

REFERENCES: NUC.



**4218. — German, 1920.**

Methodik | Des | Mineralogisch-Geologischen  
| Unterrichts | Von | Dr. Julius Ruska |  
a.o. Professor and der Universität und Professor  
am Gymnasium zu Heidelberg | Mit 35 Text  
Abbildungen Und Einer Bildtafel | [ornament] |  
Stuttgart | Verlag Von Ferdinand Enke | 1920.

8°: [i]-viii, [1]-520 p., 35 illus., one plate. PAGE  
SIZE: 246 x 148 mm.

CONTENTS: [i-ii], Title page, verso "Alle Rechte...";  
[iii]-iv, "Vorwort."; [v]-viii, "Inhaltsverzeichnis."; [1]-508,  
Text.; [509]-520, "Register."

VERY SCARCE. In Ruska's interesting *Methods of Mineralogical and Geological Instruction* many, many aspects of the science are covered in short snippets. Besides the standard definitions and information on these sciences, historical notes, instructions for building collections and crystal and geological models are discussed.

Another issue, 1919: Pagination is identical.  
REFERENCES: NUC. • *USGS Library Catalog*.

Das Steinbuch Des Aristoteles (Heidelberg, 1912).  
See: Aristotle.

**RUSKIN MUSEUM.****4219. — English, 1900** [Collection catalog].

A popular illustrated handbook to the collection of minerals and objects of art. [London], 1900.

8°: xii, 36 p., 9 plates, 2 illus., portraits. VERY  
RARE.

REFERENCES: NUC.

**RUTLEY, Frank.** (BORN: Dover, England, 14 May 1842; DIED: London, England, 16 May 1904) *English geologist, mineralogist & petrologist*.

Rutley was educated partly at Bonn, but his interest in geology was kindled at the Royal School of Mines, where he studied from 1862-1865. He then joined the army, and served as lieutenant until 1867, when he became an assistant geologist on the Geological Survey. Working in the Lake district, Rutley began to make a special study of rocks and rock-forming minerals, and soon qualified as acting petrologist for the Geological Survey. For several years he worked in that capacity at the Geological Museum in Jermyn Street. In 1882 he was appointed lecturer on mineralogy at the Royal College of Science, and held this post until ill-health compelled him to retire in 1898.

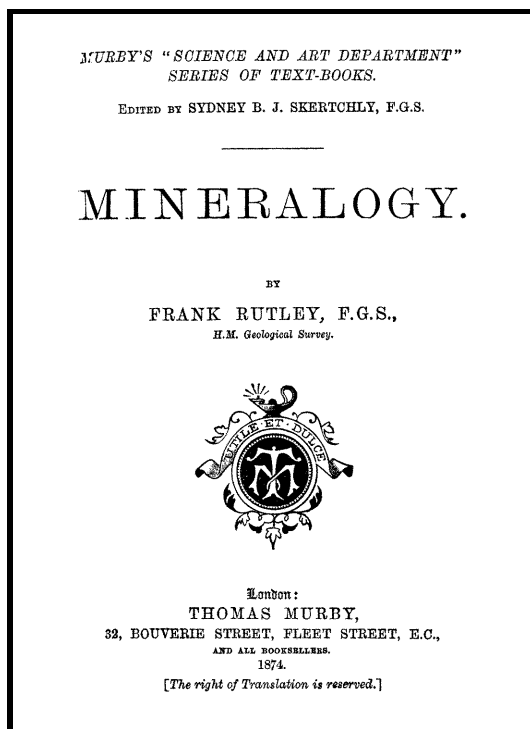
REFERENCES: BBA: I 958, 71. • *Geological Magazine*: July, 1904 [by H.B. Woodward]. • WBI.

**4220. — English, 1874** [First edition].

Murby's "Science And Art Department" | Series Of Text-Books. | Edited by Sydney B.J. Skertohly, F.G.S. | [rule] | Mineralogy. | By | Frank Rutley, F.G.S., | H.M. Geological Survey. | [ornament] | London: | Thomas Murby, | 32, Bouverie Street, Fleet Street, L.C., | And All Booksellers. | 1874. | [The right of Translation is reserved.]

8°: [i]-x, 1-214 p., 67 text illus. Endpapers contain advertisements. PAGE SIZE: 162 x 94 mm.

CONTENTS: [i-ii], Title page, verso "Butler & Tammer. | ..."; [iii], Dedication, "To the Memory | of | My Wife, | Mary E.J. Rutley, | This Little Book | Is |



ELEMENTS OF MINERALOGY, 1874

Affectionately Dedicated."; [iv], Blank.; [v]-vi, "Preface."; [vii]-x, "Contents."; [1]-206, Text.; 207-208, "Appendix."; [209]-214, "Index."

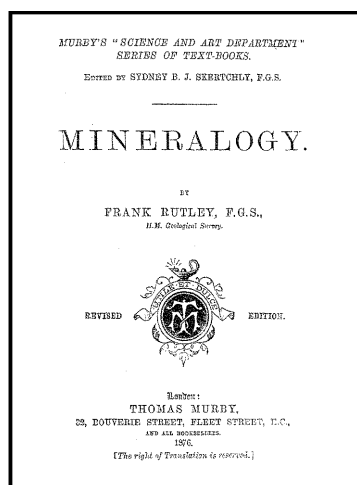
VERY RARE. Written as part of 'Murby's Test Books', this little treatise expresses in a clear and simple form that facts that are essential to the general student studying mineralogy. The descriptions are concise, and the selection of material good. The first section provides an introduction to the science stressing the physical properties of minerals, with a chapter on crystallography and one on optical properties. The second part of the volume is taken up by a descriptive mineralogy that lists characteristics of the most commonly encountered mineral species, including metals with occurrences and uses. At the end is a glossary of terms. Immensely popular the book went through twelve editions during the author's lifetime and more after his death, being perhaps the most frequently reprinted textbook in the mineralogical literature (27th edition, 1988).

**Contents:** Introduction. Part I. Properties Of Minerals. Chapter I. Chemical Composition. Chapter II. The Blowpipe. Chapter III. Physical Properties Of Minerals. Chapter IV. Crystallography. Part II. Description Of Mineral Species. A. Non-Metallic Minerals. B. Metallic Minerals.

REFERENCES: BMC: [wanting]. • *Nature*: 2 July 1874, 161. • NUC.

**4221. 2nd edition, 1876:** Murby's "Science And Art Department" | Series Of Text-Books. | Edited by Sydney B.J. Skertohly, F.G.S. | [rule] | Mineralogy. | By | Frank Rutley, F.G.S., | H.M. Geological Survey. | Revised [ornament] Edition. | London: | Thomas Murby, | 32,





MINERALOGY, 1876

Bouverie Street, Fleet Street, L.C., | And All Booksellers.  
| 1876. | [The right of Translation is reserved.]

8°: [i]-x, 1-214 p., 66 text illus. (figure 67 of the first edition showing native silver has been deleted). PAGE SIZE: 160 x 100 mm.

CONTENTS: [i-ii], Title page, verso "Butler & Tammer. | ..."; [iii], Dedication, "To the Memory | of | My Wife, | Mary E.J. Rutley, | This Little Book | Is | Affectionately Dedicated."; [iv], Blank.; [v]-vi, "Preface," followed by "Preface To The Second Edition."; [vii]-x, "Contents."; [1]-206, Text.; 207-208, "Appendix."; [209]-214, "Index."

VERY SCARCE. "Since the publication of the first edition valuable corrections and additional notes have been made by Prof. John Morris, F.G.S., of University College; Mr. Hilary Baurman, F.G.S., A.I.C.E. (who has in great part rewritten the section on Coals and Bitumens); and Mr. Thos. Davies, F.G.S., of the British Museum; to all of whom the author would here record his most sincere thanks. Other notes and corrections have also been made. These alterations have done much towards rendering the book trustworthy and useful."—*Second Edition Preface*.

REFERENCES: BL: [1607/614.]. • BMC: 4, 1773. • NUC.

**4222. 3rd edition, 1887:** Mineralogy. Third edition, revised and considerably enlarged. London, Thomas Murby, 1887.

8°: vii, [1], 241 p., illus. VERY SCARCE.

REFERENCES: *USGS Library Catalog*.

**4223. 10th edition, 1897:** Murby's "Science And Art Department" | Series Of Text-Books. | [rule] | Mineralogy. | By | Frank Rutley, G.G.S., | [...one line...] | Tenth Edition, Revised And Corrected. | [ornament] | London: | Thomas Murby, | 3, Ludgate Circus Buildings, E.C. | And All Booksellers. | 1897. | [The right of Translation is reserved.]

8°: 240 p., illus.

VERY SCARCE. Published as a volume in Murby's *Science and Art Department* series of text-books.

REFERENCES: *USGS Library Catalog*.

**4224. 12th edition, 1900:** Mineralogy. 12th edition. London, Thomas Murby, 1900.

8°: vii, 240 p. illus. VERY SCARCE.

REFERENCES: *USGS Library Catalog*.

**4225. 13th edition, 1902:** Mineralogy. 13th edition. London, Thomas Murby, 1902.

8°: SCARCE.

REFERENCES: BL. • NUC.

**4226. 15th edition, 1908:** Mineralogy. 15th edition. London, Thomas Murby, 1908.

8°: viii, 251 p., illus. SCARCE.

REFERENCES: BMC: 4, 1773.

**4227. 18th edition, 1912:** Murby's "Science And Art Department" | Series Of Text-Books. | [rule] | Mineralogy. | [double rule] | By | Frank Rutley, F.G.S. | Late Lecturer on Minealogy in the Royal College of Science, London | Eighteenth Edition | London: | Thomas Murby & Co., | 6, Bouverie Street, E.C. | And All Booksellers | [The right of Translation reserved.]

8°: [i]-viii, [1]-267, [7] p., illus., diagrams. The date of publication taken from the publisher's note, p. iii. PAGE SIZE: 176 x 114 mm.

CONTENTS: [i-ii], Title page, verso blank.; [iii], "Preface To The Thirteenth Edition" and "Publisher's Note," describing this the eighteenth edition.; [iv], "The Publishers would draw ..."; [v]-vii, "Contents."; viii, "Abbreviations."; [1]-259, Text.; [260], "To The Student."; [261]-267, "Index."; [1 pg], Blank.; [6 pgs], Advertisements.

SCARCE. Rutley's *Mineralogy* is a book packed full of information. It contains much more matter than anyone would expect in a book of its size and price, and is the most useful work of its kind on the market.

**Sections:** Introduction (pp. 1-2). Part I. Properties of Minerals. Chemical Composition (pp. 3-9). The Blowpipe (pp. 10-21). Physical Properties of Minerals (pp. 22-45). Crystallography (pp. 46-70). Part II. Description of Mineral Species (pp. 71-226). Appendix (pp. 227-262).

REFERENCES: BL. • *Mining Journal*: 1912, ?? • *Nature*: 1912, ?? • NUC. • *USGS Library Catalog*.

**4228. 19th edition, 1916:** Elements of mineralogy, by Frank Rutley, rev. by H. H. Read, introduction by G. T. Holloway. London, T. Murby & Co., 1916.

8°: xxii, 394 p., illus., diagrams. VERY SCARCE.

**Other editions:** 22nd edition, 1929. xxii, 394 p., illus.

23rd edition, 1936. 490 p., illus., diagrams.

25th edition, 1953. 525 p., illus., diagrams.

25th edition, revised. 1962. x, 525 p., illus.

26th edition, 1970. xii, 560 p., illus., diagrams.

27th edition, 1988. [512] p., illus., diagrams.

REFERENCES: *USGS Library Catalog*.

## Rock-Forming Minerals

**4229. — English, 1888.**

Rock-forming minerals. By Frank Rutley. London, Thomas Murby, 1888.

8°: iv, 252 p., illus., diagrams. An elementary textbook for the beginner, Rutley describes the various optical and chemical properties displayed by the different minerals that form rocks upon microscopic investigation. VERY SCARCE.

REFERENCES: NUC. • *USGS Library Catalog*. • Zittel, *History of Geology*, 1901: p. 336.

**4230. — English, 1894.**

Granites | And | Greenstones | A Series of Tables and Notes for | Students of Petrology | By | Frank Rutley, F.G.S. | Lecturer on Mineralogy, Royal College of Science, London | [All Rights Reserved] | London | Thomas Murby | 3 Ludgate Circus Buildings, E.C. | 1894.

8°: [1]-51 p., tables, diagrams. PAGE SIZE: 210 x 170 mm.

CONTENTS: [1-2], Title page, verso "Butler & Tanner | ..."; 3, "Contents."; 4, "Extracts from Works Published between the Years 1820 and 1860."; 5-6, "Prefatory [!]

Note.”; 7-45, Text.; 46-51, “Index To Determinative Tables.”

VERY SCARCE. *Granites and Greenstones* is the title of a series of tables for the determination of rocks and their essential components. Rutley divides the rocks into Volcanic, Dykes and Sills and Plutonic masses, which he then subdivides.

REFERENCES: NUC. • *USGS Library Catalog*.

**RUTTY, John.** (BORN: 1698; DIED: 1775) *Irish physician.*

Rutty, a physician, studied under Boerhaave in Leiden. He wrote works on materia medica, mineral waters, and an analysis of milk. One of his books was published by Benjamin Franklin in Philadelphia.

REFERENCES: Allibone, *Dictionary of English Literature*, 1859-71. • BBA: I 958, 102-117. • *Biographie Universelle*. • DNB. • *Nouvelle Biographie Générale* (Hoefer). • Sharpless, William T.S., “Dr. John Rutty (1698-1775) of Dublin and his ‘spiritual diary and soliloquies’,” *Ann. Med. Hist.*, 10 (1928), 249-57. • Watt, *Bibliotheca Britannica*, 1824. • WBI. • Webb, *Compendium of Irish Biography*, 1878.

**4231. — English, 1772** [First edition].

An Essay Towards a Natural History of the County of Dublin, Accommodated to the Noble Designs of the Dublin Society Printed By W. Sleator in Castle Street, Dublin Affording a summary view I. Of its Vegetables with their mechanical and oeconomical uses, and as Food for Men and Cattle; a Catalogue of our Vegetable Poisons; and a Botanical Kalendar, exhibiting the respective Months in which most of the Simples in Use are in Flower. II. Of its Animals. III. Of its Soil, and the State of its Agriculture; its Fossils, Mines, Minerals, and some lately discovered mineral Waters; particularly the sulphureous Water at Lucan, and its medicinal Virtues, from practical Observations. IV. Of the Nature of the Climate, from Diaries of the Weather, kept in Dublin for fifty years past; interspersed with meteorological and oeconomical Observations. By John Rutty ... Dublin, Printed by W. Sleator for the Author, 1772.

2 vols. [VOL 1] 8°: xiv, [4 subscribers], [1]-80, 73-390, [2] p. [VOL 2] 8°: [2], vi, [1]-287, 281-488 p., 4 folding plates, 7 folding tables.

RARE. Rutty settled in Dublin in 1724, where, while extremely active in Dublin intellectual life, he practiced medicine for most of his life. He initiated two long-term projects: a detailed study of materia medica and a systematic record of the weather of Dublin. His pioneering *Essay towards a Natural History*, the first real county natural history in Ireland, has a particular emphasis on the practical uses, medicinal or culinary, of the flora and fauna. Notably it includes the earliest notice of the brown rat (*Rattus Norvegicus*) coming to Ireland. The third section describes the soils, agriculture, fossils, mines, minerals, and mineral waters of the region. The five engraved plates of birds were the first serious attempt to provide natural history

illustrations in an Irish book. Being a fervent Quaker, he repetitively catalogs his faults, from which he is principally remembered as a subject for the wit of Samuel Johnson.

REFERENCES: BL. • BMC: 4, 1774. • LKG: XIV 428. • NUC.



RUYSCH

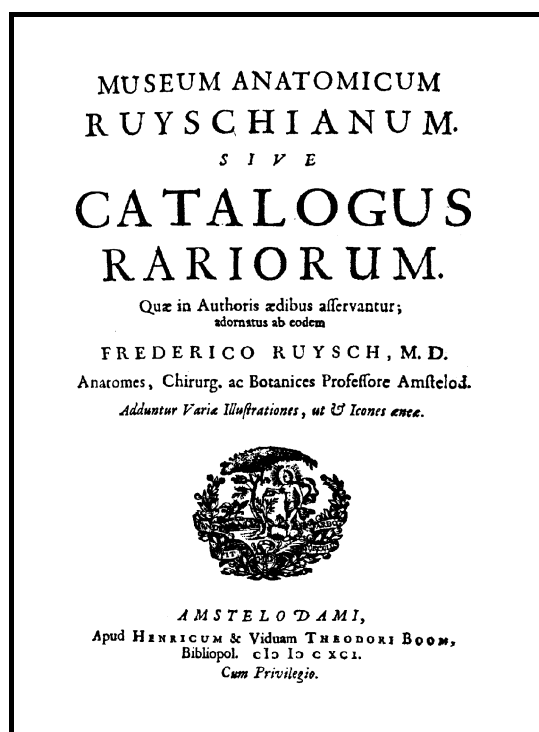
**RUYSCH, Frederik.** (BORN: The Hague, The Netherlands, 23 March 1638; DIED: Amsterdam, The Netherlands, 22 February 1731) *Dutch physician, anatomist & botanist.*

Ruysch was descended from an old and notable family, whose members were established in various cities. As a youth, he was apprenticed to an apothecary. In 1661, although not yet admitted to the apothecaries guild, he prepared prescriptions and opened his own shop in The Hague. However, the guild ordered him to suspend activity until he passed the required exam, which Ruysch did in the summer of 1661. In 1666, he was named praelector of anatomy for the surgeon's guild in Amsterdam. He held this post the remainder of his long life. Soon after he accepted the appointment, he relocated to Amsterdam, where in various rented houses, he displayed his ever growing collections of anatomical and natural history specimens.

REFERENCES: Aa, *Biographisch Woordenboek*, 1852-78. • BAB: 588, 376-439 / 589, 1-46. • *Biografisch Woordenboek Nederland*: 3 ??, 1108-9 ??. • DSB: 12, 39-42 [by G.A. Lindeboom]. • *Dutch Medical Biography*. • Fontenelle, B., “Éloge de M. Ruysch,” in: *Histoire de l'Académie royale des sciences pour l'année 1731 avec les mémoires de mathématique et physique pour la même année, tirés registres de cette Académie*. Paris, 1731. • Hazen, N.T., “Johnson's life of Frederic Ruysch,” *Bulletin of the History of Medicine*, 7 (1939), 324. • Hirsch, *Biographisches Lexikon*, 1884-8: 4, 934. • Jöcher, *Gelehrten-Lexikon*, 1750-51. • Kobus, *Biographisch Woordenboek*, 1886. • NNBW. • Scheltema, P., *Het leven van Frederik Ruysch*. M.D. Dissertation, University of Leiden, 1886. • Schreiber, J.F., *Historia vitae et meritorum Frederici Ruysch*. Amsterdam, 1723. • WBI.

**4232. — Latin, 1691** [Collection catalog].

Museum Anatomicum | Ruyschianum. | Sive | Catalogus | Rariorum. | Quæ in Authoris ædibus asservantur; | adornatus ab eodem |



CATALOGUS RARIORUM, 1691

Frederico Ruysch, M.D. | Anatomes, Chirurg. ac Botanices Professore Amstelod. | Adduntur Variæ Illustrationes, ut & Icones æneæ. | [ornament] | Amstelodami, | Apud Henricum & Viduam Theodori Boom, Bibliopol. c1610 c xci. | Cum Privilegio.

2 parts in one volume. [Part 1] 4°: [16], 138 p. [Part 2] 4° [2], 120 p., 46 engraved plates (4 folding).

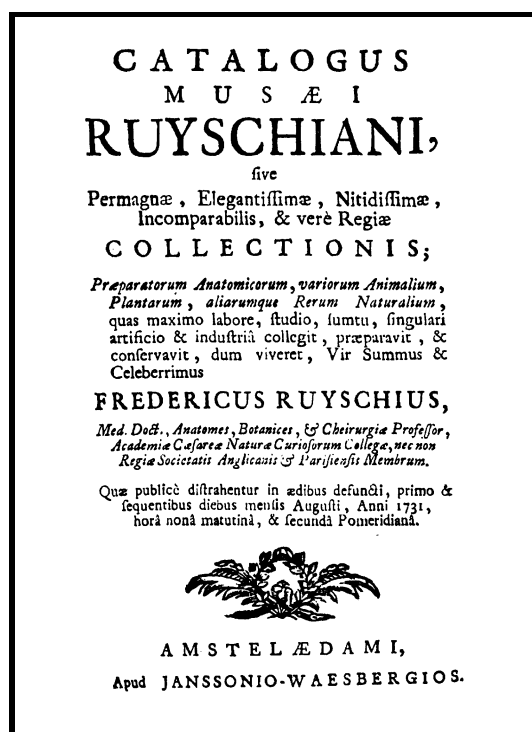
VERY SCARCE. Published as the second part in Ruysch's *Observationum Anatomico-Chirurgicarum Centuria*. Accedit *Catalogus Rariorum, quae in Museo Ruyschiano Asservantur* (Amsterdam, 1691).

Eimas 613: "Ruysch presents the results of one hundred studies and illustrates many of them with excellent engravings, many of which are undoubtedly enhanced by his injection techniques. Also bound with this work (= Tl. II) is his 'Museum anatomicum Ruyschianum', a catalogue of the specimens in his museum, which was purchased and moved to Russia by Peter the Great in 1717." Figures 32-33 left out in numbering of illustrations.

REFERENCES: Eales: 1, 649. • NLM 17th Century Books (Krivatsy): no. 10071. • Sallander, *Bibliotheca Walleriana*, 1955: no. 8337. • Wellcome Catalog (Books): 4, 597.

**4233. — Latin, 1731** [Sale catalog].

Catalogus | Musæi | Ruyschiani, | sive | Per-  
magnæ, Elegantissimæ, Nitidissimæ, | Incompara-  
bilis, & verè Regiæ | Collectionis; | Præparatorum



CATALOGUS MUSÆI RUYSCHIANI, 1731

Anatomicorum, variorum Animalium, | Plantarum, aliarumque Rerum Naturalium, | quas maximo labore, studio, sumtum, singulari | artificio & industriâ collegit, præparavit, & | conservavit, dum viveret, Vir Summus & | Celeberrimus | Fredericus Ruyschius, | [...3 lines of titles and memberships...] | Quæ publicè distraherentur in ædibus defuncti, primo & | sequentibus diebus mensis Augusti, Anni 1731, | horâ nonâ matutinâ, & secundâ Pomeridianâ. | [ornament] | Amstelædami, | Apud Janssonio-Waesbergios.

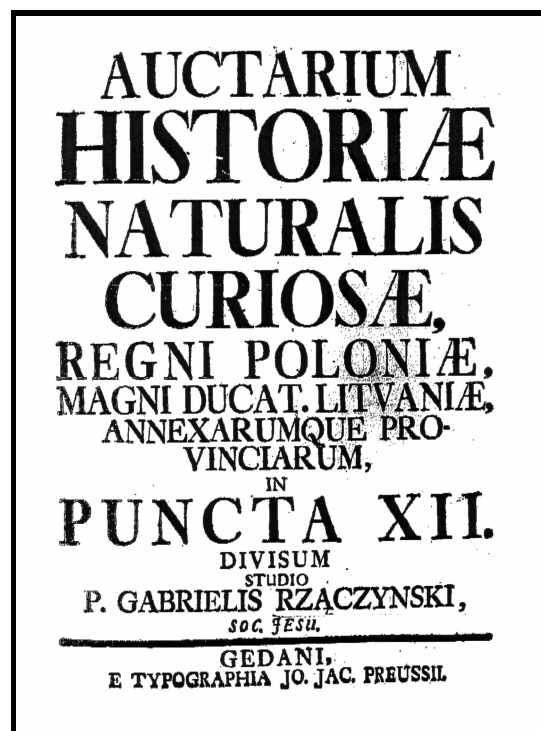
8°: [2], [1]-94 p.

VERY RARE. Auction catalogue of the second, and larger, collection of anatomical and natural history specimens formed by Ruysch. Resident in Amsterdam, Ruysch's collection was famous throughout Europe, and visited by many persons of every description. Generals, ambassadors, princes, and even kings were happy in the opportunity of examining it. In 1698, when Peter the Great visited Holland, he often dined with Ruysch so that he might have an opportunity of examining the cabinet. Ruysch liked his cabinet to be displayed in dramatic ways. "He prepared a corpse of a child as if it were alive so that Peter the Great was inclined to kiss it. A hydrocephalic child was prepared, seated on a cushion and with a placenta in its hands." (DSB)

In 1715, Ruysch announced his intention to sell the collection, but no buyers presented themselves. In

1717, on a return visit to Holland, Peter the Great bought it for 30,000 guilders. It was carefully packed and transported by boat to Russia, becoming part of the Royal collections. Immediately after the sale, Ruysch, age 79, began a new collection. After Ruysch's death in 1731, at age 96, the new collection was sold at auction. A large number of items were acquired for 20,000 florins by the King of Poland, John Sobieski, who entrusted their preservation to the University of Wittenberg. (Murray) The catalog of this sale shows that Ruysch's second collection was substantially larger than his first; it describes 1189 anatomical specimens, 27 lots of exotic plants, and a few lots of mineralogical interest in the natural history section. The collection sold to Peter the Great in 1717 contained only 935 items.

REFERENCES: BL: [1044.c.4.(2.)]. • DSB: 12, 39-41. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 276. • Murray, *Museums*, 1904: 1, 116-7, 182 & 209. • Wilson, *History of Mineral Collecting*, 1994: 222-3.



AUCTUARIUM, 1742

**RZĄCZYŃSKI, Gabriel.** (BORN: 1664; DIED: 1737)  
Polish Jesuit & naturalist.

REFERENCES: Dymińska, M., "Wiadomości o surowcach leczniczych pochodzenia naturalnego u polskich fizjografów XVIII wieku. (Gabriel Rzaczyński i Remigiusz Ładowski)," *Arch. Hist. Medycyny*, 34 (1971), 411-23. • Fedorowicz, *Fauna Polski-Rzaczyńskiego*, 1966. • Orgelbranda, *Encyklopedia Powszechna*, 1898-1912: 13, 197. • PBA: *Polskie Archiwum Biograficzne*: 491, 55-71. • *Polski Słownik Biograficzny*: 33, 613-5 [by L. Grzebień]. • WBI.

#### 4234. — Latin, 1721.

*Historia naturalis curiosa regni Poloniae, magni ducatus Litvaniae, annexarumque provinciarum, in tractatus XX divisa, ex scriptoribus probatis, servata primegenia eorum phrasi in locis plurimis, ex mss. variis, testibus oculatis, relationibus fide dignis, experimentis desumpta.* Sandomierz, Typis collegii Societatis Jesu, 1721.

4°: [14], 456, [16] p.

VERY SCARCE. The first comprehensive survey of the natural history of Poland, it is a rare early monograph containing descriptions of the geology, fauna, flora, astronomy, meteorology, anthropology, medicine and the pharmacology of Poland and the Baltics. A supplemental volume *Auctuarium Historiae Naturalis* appeared in 1742 in Danzig. In chapter XIV the author offers also one of the earliest sources to the Polish Vampir (Upier), based on the manuscript "Everio atheism" (the destruction of the Atheismus) by the Jesuit Jerzy Gengell.

A special section: gemmis, lapidibus insignioribus et rarioribus and "de Plantis officinarum". The last 16p. include the important index and the key to this work.

Contents: De fossilibus, De montibus Carpatibus, De aquis mediacatis, De fluminibus et piscibus, De mari Balthico, De arboribus et fruticibus, etc.

REFERENCES: Agassiz, *Bibliographia Geologiae*, 1848-54: 4, p. 232. • Berg, *Repertorium Literatur Mineralogie*, 1862: p. 43. • Brunet: 4, 1476. • De Backer, *Bibliothèque des Ecrivains*, 1853-61: 7, 347. • Engelmann, *Bibliotheca Historico-Naturalis*, 1846: p. 121. • Graesse, *Trésor de Livres Rares*, 1859-69: 6, 199. • LKG: XIV 719.

#### 4235. — Latin, 1742.

Auctarium | Historiæ | Naturalis | Curiosæ  
Regni Poloniæ, | Magni Ducat. Litvaniæ, |  
Annexarumque Pro- | Vinciarum, | In | Puncta  
XII. | Divisum | Studio | P. Gabrielis Rzaczyński,  
| Soc. Jesu. | [rule] | Gedani, | E Typographia Jo.  
Jac. Preussii.

4°: [1]-504 p. RARE.

REFERENCES: Berg, *Repertorium Literatur Mineralogie*, 1862: p. 43. • BL: [444.b.17.]. • Brunet: 4, 1476. • LKG: XIV 720a.

**SADEBECK, Alexander.** (BORN: Berlin, Germany, 26 June 1843; DIED: Hamburg, Germany, 9 December 1879) German mineralogist, crystallographer & stratigrapher.

In 1865, Sadebeck received his Ph.D. from the University of Berlin. In 1872, he became professor ordinary of mineralogy and geology at the University of Kiel.

REFERENCES: ADB: 30, 163-4. • *American Journal of Science*: 3rd Series, 19 (1880), 168. • Barr, *Index to Biographical Fragments*, 1973: 227. • DBA: I 1074, 3-5; II 1115, 439-440. • Lambrecht & Quenstedt, *Catalogus*, 1938: 373. • *Neues Jahrbuch für Mineralogie, Geologie und Paläontologie*: Jg. 1880, 1, 2 unnumb. pages [in section added at back]. • Poggendorff: 3, 1159-60. • Sarjeant, *Geologists*, 1980: 3, 2029. • Volbehr & Weyl, *Professoren zu Kiel*, 1916: 109. • WBI.

## SÆMUNDSSON

### 4236. — German, 1869.

Ueber die Krystallformen der Blende ... Mit einer Kupfertafel. Berlin, 1869.

8°: ?? p. VERY SCARCE.  
REFERENCES: BL.

Gustave Rose's Elemente der Krystallographie. Dritte Auflage, neu bearbeitete und vermehrt von Alexander Sadebeck ... (Berlin, 1873).  
*See: Rose, Gustav.*

### 4237. — German, 1873.

Repetitorium der Mineralogie und Geologie zum Gebrauche für Architekten, Forstleute ... Berlin, 1873.

8°: 118 p. VERY SCARCE.  
REFERENCES: BL. • NUC: 513, 515 [NS 0015629].

Das Mineralogische Museum ... Systematisches Verzeichniss und Beschreibung seiner Schausammlungen. Von G. Rose und A. Sadebeck. (Berlin, 1874).  
*See: Rose, Gustav.*

### 4238. — German, 1876.

Angewandte Krystallographie ausbildung der Krystalle, Zwillingsbildung, Krystallotektonik, nebst einem Anhang über Zonenlehre. Berlin, E.S. Mittler, 1876.

8°: xv, 284 p., 12 plates. VERY SCARCE.  
REFERENCES: BL. • Dana's 7th (Bibliography): 79. • NUC: 513, 515 [NS 0015626].



ÁGRIP, 1900

### SÆMUNDSSON, Bjarni. (BORN: 1867; DIED: 1940) *Icelandic educator.*

REFERENCES: SBA: Scandinavian Biographical Archive: A-26, 318-319; A-19, 149-155. • WBI.

### 4239. — Icelandic, 1900.

Ágrip | Af | Steinafræði | Eftir | Bjarna Sæmundsson. | [rule] | Prentað sem handrit. | [rule] | [ornate rule] | Reykjavík. | Glasgow-Prentsmiðjan. | 1900.

8°: 55 p., 4 plates.

RARE. This summary of mineralogy is written in the Icelandic language (Steindafræði=mineralogy). Apparently, it was prepared from a manuscript notes used by the author in teaching mineralogy at a technical school in Reykjavík.

REFERENCES: BL. • NUC.



SAGE

### SAGE, Balthazar-Georges. (BORN: Paris, France, 7 May 1740; DIED: Paris, France, 9 September 1824) *French apothecary, mineralogist, chemist & metallurgist.*

Sage, the son of a pharmacist, became a pharmacist himself, and was educated by Abbé Nollet and Rouelle. In 1760, he delivered a series of public lectures on chemistry and assaying in the family pharmacy. As a result of pressures from King Louis XV, in 1778 Sage was appointed extraordinary professor of mineralogy and assaying at the Paris Mint. As a principal founder of the Paris School of Mines and the Museum of Mineralogy in 1783, he became the director of both and a professor, teaching classes in both chemistry and mineralogy. Sage was elected a member of the French Academy of Science. His research emphasized assaying and chemical analysis, galvanism and natural history.

REFERENCES: ABF: I 924, 182-208. • Aguillon, L., "L'École des mines de Paris-notice historique," *Annales de Mines*, 8th Series, 15 (1889), 433-686. [History of the Paris School of Mines.]. • *Biographie Universelle*: 37, 230-2 [by J.F. Michaud, Jr.]. • Dorveaux, P., "Apothicaire"

membres de l'Académie royale des sciences, XI, Balthazar-Georges Sage," *Revue d'Histoire de la Pharmacie*, **23** (1935), 152-66 & 216-32. • Drugulin, *Sechstausend Portraits*, 1863: nos. 4698-4701. • DSB: **12**, 63-9 [by H. Guerlac]. • Ferguson, *Bibliotheca Chemica*, 1906: **2**, 312-3. • Lambrecht & Quenstedt, *Catalogus*, 1938: 373. • *Nouvelle Biographie Générale* (Hoefer): **42**, col. 1010-11 [by E. Mézières]. • Partington, *History of Chemistry*, 1961-70: **3**, 97-8. • Poggendorff: **2**, col. 732-4. • Rouff, M., *Les mines de charbon en France au XVIII<sup>e</sup> siècle, 1744-1791*. Paris, 1922. • Sage, B.-G., *Notice biographique*. Paris, 1818. 37 p. [A supplement of 22 pages was published in 1820.]. • Todericiu, D., "Balthasar-Georges Sage (1740-1824) Chimiste et Minéralogiste Français Fondateur de la Première Ecole des Mines (1783)," *Revue d'Histoire Sciences*, **37** (1984), 29-46. • WBI. • Wilson, *History of Mineral Collecting*, 1994. • *World Who's Who in Science*: 1466.

#### 4240. — French, 1769.

Examen | Chymique | De Différentes | Substances Minérales; | Essais sur le Vin, les Pierres | les Bézoards, & d'autres Parties | d'Histoire Naturelle & de Chymie; | Traduction d'une Lettre de | Monsieur Lehmann, sur la Mine | de Plomb Rouge. | Par M. Sage. | [ornament] | A Paris, | De l'Imprimerie de P. de Lormel, rue | du Foin, à l'Image Sainte Genevieve. | [double rule] | M.DCC.LXIX. | Avec Privilege.

12°: a<sup>6</sup> A-K<sup>12</sup> L<sup>6</sup> χ<sup>3</sup>; 135ℓ.; [i]-xii, [1]-151 (i.e. 251), [7] p. Pages 242-251 misnumbered 141-151. PAGE SIZE: 166 x 972 mm.

RARE. A collection of short essays on a variety of subjects connected to minerals, ores, gems and fossils, also including an essay on the best method to determine the quality of wine. Other topics covered are the preparation of blue paint pigment from lapis lazuli, an important chemical and physical examination of human and animal calculi or bezoars, and a translation of a letter from JOHANN GEORG LEHMANN describing "red lead" (i.e. Crocoite) found in the lead mines of Siberia. Among other characteristics, the mineral is described as being worth its weight in gold to Russian collectors.

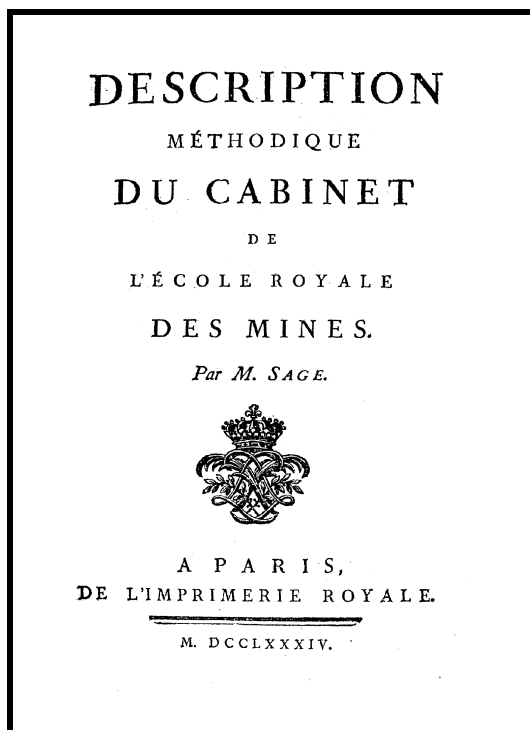
**Related work, 1773:** *Mémoires* | de | Chimie. | Par M. Sage. | [ornament] | A Paris, | de l'Imprimerie Royale. | [rule] | M. DCCLXXXIII. 8°: \*<sup>4</sup> A-T<sup>8</sup>; 155 leaves.; [i]-vii, [1], [1]-262, [i]-xxxviii, [2] p., with royal arms on title and one folding engraved plate.

[i-ii], Title page, verso blank.; iii-iv, "Avertissement."; v-vii, "Table des Mémoires de Chimie, Contenus dans cet Quvrage."; [1 pg], Blank.; [1]-262, Text.; i-xxxviii, "Table des Matières contenues dans ces Mémoires de Chimie."; [1 pg], Errata.; [1 pg], Blank.

Scarce. This collection of chemical papers mostly deals with the analyses of ores and minerals containing arsenic, antimony, cobalt, silver, copper, iron, etc. Other topics include coal, glass, the crystallization of metals from amalgams, metallic calces and remarks on a table of chemical affinities. Many of the papers are reprinted from *Mémoires de l'Académie des Sciences* (1766-1772). "Of some interest is the paper on 'animal salt' (pp. 59-65) in which Sage describes the preparation of crystalline potassium ferrocyanide." (Cole).

REFERENCES: (**Examen, 1769**) LKG: XI 3. • Sinkankas, *Gemology Bibliography*, 1993: no. 5679. • Ward & Carozzi, *Geology Emerging*, 1984: no. 1942. • (**Mémoires, 1773**) Cole, *Chemical Literature*, 1988: no. 1147. • Duveen, *Bibliotheca Alchemica et Chemica*, 1965: p. 523. • Edelstein, *Catalog*

of the History of Chemistry, 1981: no. 2030. • Partington, *History of Chemistry*, 1961-70: **3**, 98.



DESCRIPTION MÉTHODIQUE DU CABINET, 1784

#### 4241. — French, 1784 [Collection catalog].

Description | Méthodique | Du Cabinet | De | L'École Royale | Des Mines. | Par M. Sage. | [ornament] | A Paris, | De l'Imprimerie Royal. | [double rule] | M. DCCLXXXIV.

8°: π<sup>1</sup> \*<sup>8</sup> A-Z<sup>8</sup> Aa-Hh<sup>8</sup> Ii<sup>2</sup>; 259ℓ.; [2], i-xvi, [1]-487, [1], i-xi, [1] p., one table. PAGE SIZE: 180 x 120 mm.

CONTENTS: [2 pgs], Title page, verso blank.; i-v, "Avertissement."; vi, "Errata."; vii-xvi, "Table Synoptique | de la description méthodique du Cabinet | de l'École royale des Mines."; [1]-482, Text, being descriptions of the specimens.; 483-487, "État du Laboratoire de l'École | Royale des Mines."; [1 pg], Blank.; i-xi, "Table Alphabétique | Des matières contenues dans la Description | méthodique du Cabinet de l'École royale | des Mines."; [1 pg], Blank.

SCARCE. The Paris School of Mines was established in March 19, 1783. This is a catalog of its mineral collection that according to Sage's advertisement was at the time one of the most complete in Europe. The specimens are ordered by chemical qualities, which had been determined through experimentation and blowpipe analysis. Brief descriptions and locality information are provided for each entry, but the overall content is scant on information.

REFERENCES: CBN: 159, cols. 1190-1201. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 273. • LKG: XV 37. • Partsch, *Katalog der Bibliothek*, 1851: no. 481. • Sinkankas, *Gemology Bibliography*, 1993: no. 5685. • Wilson, *History of Mineral Collecting*, 1994: 49-50, 53 & 223.

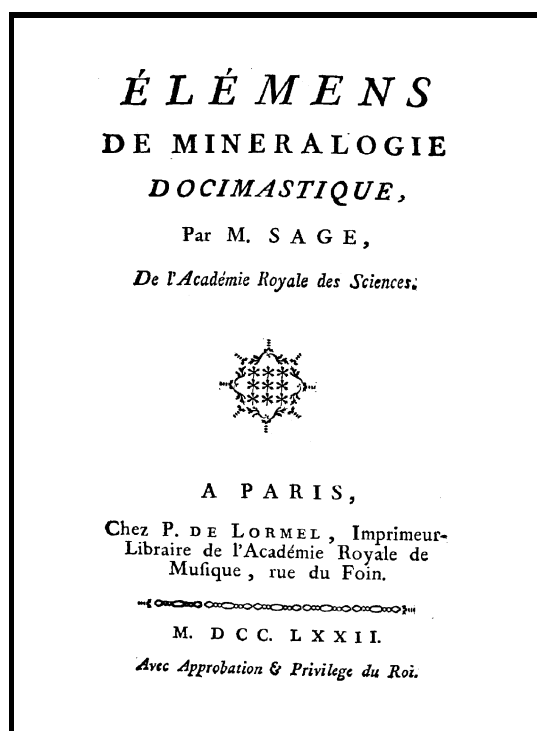
**4242. Suppl., 1787:** Supplément | À La | Description | Méthodique | Du Cabinet de l'École Royale | des Mines. | Par M. Sage. | [ornament] | A Paris, | De L'Imprimerie Royale. | [double rule] | M. DCCLXXXVII.

8°:  $\pi^1$  A-I<sup>8</sup> K<sup>6</sup>; 79 $\ell$ .; [2], 1-156 p. PAGE SIZE: 180 x 120 mm.

CONTENTS: [2 pgs], Title page, verso blank.; 1-4, "Avertissement."; [5]-156, Text.

RARE. This supplement includes descriptions of specimens that were new to the collection or overlooked in the original volume.

REFERENCES: BL.



ÉLÉMENTS DE MINÉRALOGIE DOCIMASTIQUE, 1772

**4243. — French, 1772** [First edition].

Éléments | de Mineralogie | Docimastique, | Par M. Sage, | De l'Académie Royale des Sciences. | [ornament] | A Paris, | Chez P. de Lormel, Imprimeur- | Libraire de l'Académie Royale de | Musique, rue du Foin. | [rule] | M. DCC. LXXII. | Avec Approbation & Privilège du Roi.

8°: a<sup>8</sup> b<sup>4</sup> A-R<sup>8</sup> S<sup>2</sup>; 150 $\ell$ .; [i]-xxiv, [1]-276 p. Facing page 260 is a folding plate, "Table des cinq Matieres qui servent | a Mineraliser les Substances metalliques." PAGE SIZE: 192 x 120 mm.

CONTENTS: [i-ii], Title page, verso blank.; [iii]-iv, Dedication to Monseigneur Bertin.; v-xj, "Préface."; [xii], Blank.; xiii-xxiv, "Table Synoptique."; [1]-259, Text.; [260],

"Extrait Des Registres."; [One folding table].; 261-276, "Table | Alphabétique | Des Matieres."

SCARCE. Contains the material the author covered in a course on chemistry and mineralogy, which he had taught for twelve years. The text is divided into three parts. The first deals with the five mineral acids, fixed and volatile alkalis, various salts and bitumens. The second attempts to show that the so-called simple earths are salts whose basis is the absorbant earth. The third section covers metals. At the conclusion is a short section on the analysis of mineral waters. Cole (1988) says a number of the analyses are fanciful.

REFERENCES: BL: [970.i.3]. • Bolton, *Bibliography of Chemistry*, 1893: 795. • Cole, *Chemical Literature*, 1988: no. 1143. • Dana's 7th (Bibliography): 80. • Duveen, *Bibliotheca Alchemica et Chemica*, 1965: p. 523. • Ferchl: 463. • Hoover Collection: no. 708. • LKG: XI 5b. • Sinkankas, *Gemology Bibliography*, 1993: no. 5681. • Todericiu, D., "Balthasar-Georges Sage (1740-1824) Chimiste et Minéralogiste Français Fondateur de la Première Ecole des Mines (1783)," *Revue d'Histoire Sciences*, 37 (1984), 29-46: 36 & 41.

**4244. 2nd edition, 1777:** Éléments | De | Minéralogie | Docimastique. | Par M. Sage. | Seconde Édition. | [rule] | Tome Premier [-Second]. | [rule] | [ornament] | A Paris, | De L'Imprimerie Royale. | [double rule] | M. DCCLXXXVII.

2 vols. [VOL 1] 8°: a-c<sup>8</sup> A-X<sup>8</sup> Y<sup>2</sup>; 244 $\ell$ .; [i]-xlvii, [1], [1]-339, [1] p., frontispiece (portrait of Sage); [VOL 2] 8°:  $\pi^1$  A-Z<sup>8</sup> Aa-Bb<sup>8</sup> a-c<sup>8</sup>; 225 $\ell$ .; [2], [1]-400, i-xlvi, [2] p., one plate, one table. The plate in the volume reproduces the table from the first edition, which is titled, "Tableau des Combinaisons de l'Acide Phosphorique." PAGE SIZE: 192 x 120 mm.

CONTENTS: [Vol 1] [i-ii], Title page, verso blank.; iii-iv, "Avertissement."; v-xxiv, "Préface."; xxv-xlvii, "Table synoptique des Éléments de Minéralogie docimastique."; [1 pg], Blank, except for catchword: Éléments.; [1]-339, Text.; [1 pg], Blank.

[Vol 2] [2 pgs], Title page, verso blank.; [1]-400, Text.; i-xlvi, "Table alphabétique des matières contenues dans cet Ouvrage."; [1 pg], Errata, for both volumes.; [1 pg], "Avis au Relieur."

SCARCE. A greatly expanded second edition that corrects some experimental results given in the first by repeating the original experiments and presenting many more. Division of the text is the same as the first with the third section covering the mineralogy of metals occupying the whole of volume two.

Trois parties: I. Acides minéraux, alkalis, sels, bitumes. II. Les terres simples, qui sont des sels dont la base sont des terres absorbantes. III. De la docimastique, et des métaux.

REFERENCES: BL: [990.f.12, 13]. • Bolton, *Bibliography of Chemistry*, 1893: 795. • Cole, *Chemical Literature*, 1988: no. 1144. • Dana's 7th (Bibliography): 80. • Ferchl: 463. • Ferguson, *Bibliotheca Chemica*, 1906: 2, 312-3. • Hoover Collection: no. 708. • LKG: XI 5b. • *Monthly Review*: 57 (1777), 553-64. • NUC: [NS 0021357]. • Roller & Goodman, *Catalogue*, 1976: 2, 390. • Sinkankas, *Gemology Bibliography*, 1993: no. 5683.

**4245. German transl., 1775:** Des Herrn Sage | Chemische Untersuchung | verschiedener Mineralien. | Aus dem Französischen übersezt. | [rule] | Mit einigen Anmerkungen | vermehrt | von | Johann Beckmann | ordentlichem Professor der Oekonomie zu Göttingen. | [double rule] | Göttingen, | im Verlag der Wittve Bandenhoeck | 1775.

8°:  $\pi^2$  A-M<sup>8</sup> N<sup>6</sup> O<sup>4</sup>; 108 $\ell$ .; [4], [1]-208, [4] p. PAGE SIZE: 190 x 115 mm.

CONTENTS: [2 pgs], Title page, verso blank.; [2 pgs], "Vorrede"—dated 4 March 1775.; [1]-208, Text.; [4 pgs], "Inhalt."

RARE. Translation by Ludwig Albert Gottfried Schrader [1751-1815] of *Éléments de Minéralogie Docimastique* (1st ed., Paris, 1772). Johann Anton Beckmann [1739-1811] wrote the preface.

REFERENCES: LKG: XI 4a. • Sinkankas, *Gemology Bibliography*, 1993: no. 5680 [not seen].

**4246. Italian transl., 1786:** [Italian Translation]. Siena, 1786.

8°: No information concerning this supposed translation has been uncovered. This edition is most probably a phantom. EXTREMELY RARE.

REFERENCES: LKG: XI 5. • Sinkankas, *Gemology Bibliography*, 1993: no. 5684 [not seen].

**4247. German transl., 1775:** Anfangsgründe der Mineralogie nach Grundsätzen der Probierrkunst. Aus dem Französischen des Herrn Sage mit ... Anmerkungen vermehrt von Nathanael Gottfried Leske. Leipzig, Böhme, 1775.

8°: [16], 265 p.

RARE. Translation by NATHANAEL GOTTFRIED LESKE of *Éléments de Minéralogie Docimastique* (Paris, 1772).

REFERENCES: BL: [ 973.b.11.(1.)]. • Sinkankas, *Gemology Bibliography*, 1993: no. 5682 [not seen].

**4248. — French, 1780.**

L'art d'essayer l'or et l'argent tableau comparé de la coupellation des substances métalliques, par le moyen du plomb ou du bismuth procédés pour obtenir l'or plus pur que par la voie du départ par M. Sage. Paris, de l'imprimerie de Monsieur, 1780. xii, 112 p., [4] leaves of plates.

VERY SCARCE. Gold – Assaying. Assaying. Silver – Assaying.

**SAGITTARIUS, Thomas.** (BORN: Stendel, Germany, 1577; DIED: Breslau, Germany?, 1621) *German historian.*

German Hellenist and historian. Sagittarius was professor of philosophy at the University of Jena, then rector of the University at Breslau.

REFERENCES: ADB. • Günther, *Lebensskizzen der Professoren*, 1858. • Jöcher, *Gelehrten-Lexikon*, 1750-51. • WBI.

**4249. Dissertation, 1599:** Exercitationum Physicarum Agnoma Decimum de Corporibus Metallicis Seumineralibus, quod theu Geigagogontos. Ienae, Steinmann, 1599.

4°: A-B4; 8ℓ.

RARE. Dissertation, praesidium, Thomas Sagittarius, respondent, Wolfgang Baur. It was presented at the University of Jena, May 12, 1599.

REFERENCES: BL: [no copy listed]. • Gatterer, *Mineralogischen Literatur*, 1798-9: 2, 189. • LKG: XVI 20.

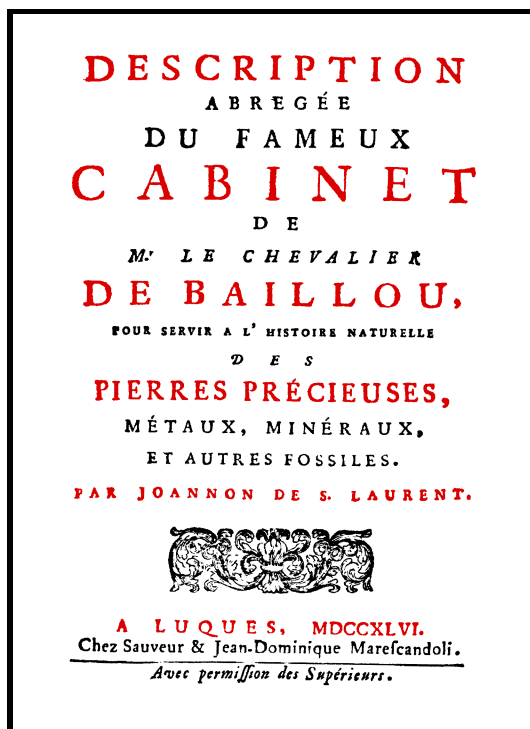
**SAINT-FOND, Barthélemy Faujas De.**

See: **Faujas De Saint-fond, Barthélemy.**

**SAINT-LAURENT, Joannon de.**

**4250. — Latin, 1746** [Collection catalog].

[In red:] Description | [in black:] Abregée | Du Fameux | [in red:] Cabinet | [in black:] De | M.<sup>r</sup> Le Chevalier | [in red:] De Baillou, | [in black:] Pour Servir A L'Histoire Naturelle | Des | [in red:] Pierres Precieuses, | [in black:] Métaux, Minéraux, | Et Autres Fossiles. | [in red:] Par Joannon De St. Laurent. | [ornament] | [in red:] A Luques,



DESCRIPTION, 1746

MDCCXLVI. | [in black:] Chez Sauveur & Jean-Dominique Marescandoli. | [rule] | Avec premission des Supérieurs.

4°:  $\pi^1 +4$  A-T<sup>4</sup> V<sup>2</sup>; 83ℓ.; [2], I-VIII, 1-156 p., one plate (p. 149; in red and black). Title in red and black. Printers device, page 155. PAGE SIZE: 220 x 160 mm.

CONTENTS: [2 pgs], Title pages, verso blank.; I-VIII, "Epitre."—dedication, signed Joannon De Saint-Laurent.; 1-155, Text.; 156, "Table | Des Chapitres."

VERY RARE. Sole edition of this remarkable 1746 prospectus that describes only a small portion of the extensive mineralogical cabinet of the Florentine naturalist Johann De Baillou [see note below]. At the time, the complete collection comprised 30,000 samples of minerals, fossils, rocks and shells, and was one of the largest in the world. This volume provides details of Baillou's collecting philosophy and descriptions of some of the finest specimens of precious stones, native metals, minerals, crystals and other fossils contained in the collection. Baillou vainly hoped that the publication of this small volume would help obtain support for a much more ambitious catalog of his collection; however, its only affect was that it influenced Emperor Franz Stefan I into purchasing the collection in 1748 and retaining De Baillou as its curator, when the whole was moved to Vienna. Upon the Emperors death in 1765, the Empress Maria Theresa presented the collection to the state and opened it to public viewing. The remnants of it are preserved today in the Naturhistorisches Museum in Vienna.



## SANCTO GEMINIANO

The volume opens with a preliminary discourse, followed by 27 chapters. Topics include a general idea of the cabinet, the philosophy behind collecting natural history specimens, the principles of the cabinet and petrifications. Other chapters describe the metals, precious stones, marine fossils, corals, crustaceans, animal fossils, earths, salts, sulfurs, alabaster & marble, jaspers of various types, agates & cornealians, pyrites, semi-metals, and rock crystal. The last chapter provides a general description of the cabinets organization.

Facing page 149 is a plate printed in red and black, showing the title page of a proposed and never published work. It was Baillou's wish to prepare a full descriptive catalog of the collection, utilizing his own system of classification. It would appear in seven folio size volumes, printed on imperial paper and illustrated by 600 plates rendering the finest specimens. It was a grandiose plan, and without the backing of a wealthy patron, impossible to complete. Unfortunately, the publication never went further than this preliminary solicitation for funds. The title as printed on the plate reads: [In red:] *Traité Universel* | [in black:] *Des* | [in red:] *Pierres Précieuses,* | [in black:] *Métaux, Minéraux,* | *Et Autres Fossiles,* | [in red:] *Le Tout Distribué Dans Ses Propres Classes,* | [in black:] *Où l on trouve leurs diférens noms, leurs origines, | leurs analyses, leurs principes, leurs qualités, | leurs étimologies, leurs choix, | & tout ce qu il y a de particulier | & remarquable en les exposant | au soïer de la Lentille astronomique | & du Miroir ardent. | On Y Traite Aussi | [in red:] Des Plantes Marines Pierreuses, | [in black:] Crustacés Et Coquillages De Mer, | Soit dans leur état naturel, soit en diférens degrés | de Calcination & de pétrification. | [in red:] On Donne A La Fin | [in black:] Lat maniere de travailler toutes sortes de pierres, | & celle de les imiter par les voies les plus courtes | & dans leur plus grande perfection. | [in red:] Par M. Le Chevalier De Baillou.*

**Johann de Baillou.** (BORN: 1679; DIED: Vienna, Austria, 1758) *Italian naturalist.* Baillou built an extensive natural history collection including 30,000 specimens of minerals, rocks and shells, which was among the world's largest. It was purchased in 1748 by the Emperor Franz Stefan I, who transported the collection to Vienna and retained Baillou as its curator. After the Emperor's death in 1765, the Empress Maria Theres presented the collection to the state and opened it to the public. Today, it is incorporated into the Naturhistorisches Museum in Vienna.

REFERENCES: Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 271. • Laissus, *Cabinets d'Histoire Naturelle*, 1964. • LKG: XV 13. • NUC: [no copy listed]. • Partsch, *Katalog der Bibliothek*, 1851: no. 470. • Sinkankas, *Gemology Bibliography*, 1993: no. 3230. • Wilson, *History of Mineral Collecting*, 1994: 101, 124 & 159. (Baillou) DBA: I 50, 279-288. • WBI. • Wilson, *History of Mineral Collecting*, 1994: 159. • Wurzbach, *Biographisches Lexikon Österreich*, 1856-91.

**SALZENBERG, Georg.** (BORN: Münster, Germany, February 1813; DIED: ) *German crystallographer.*

REFERENCES: Poggendorff: 2, col. 746.

**4251. — Latin, 1842** [Dissertation].  
*Systema Regulare* | In *Positione Rhomboedrica.*

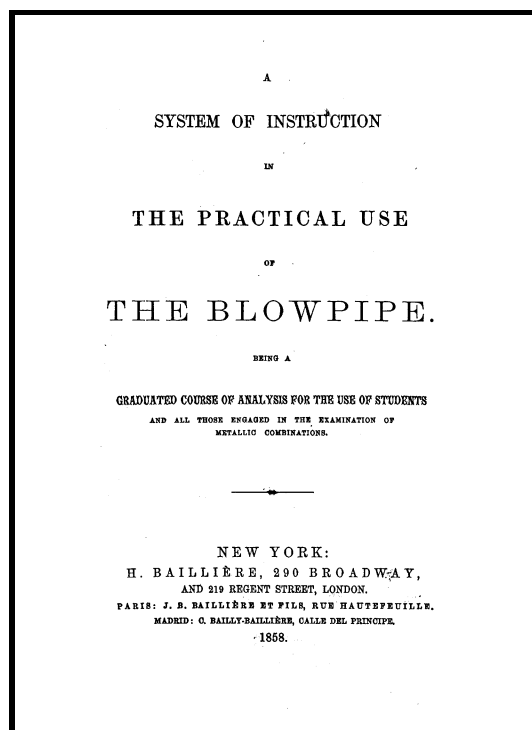
| [short rule] | *Dissertatio* | *Crystallographica* |  
*Quam* | *Consensu Et Auctoritate* | *Amplissimi*  
*Philosophorum Ordinis* | In | *Alma Litterarum*  
*Universitate* | *Friderica Guilelma* | *Ad Summons*  
| In *Philosophia Honores* | *Rite Capessendos* |  
*Die XVI. Mensis Augusti A. MDCCCXLII.* |  
*Publice Defendet* | *Auctor* | *Georgius Salzenberg*  
| *Monasteriensis.* | [short rule] | *Opponentibus:* | *H.*  
*Girard, Philos. Dr.* | *G. Froeling, Med. Et Chir. Dr.*  
| *H. Gercke, Regii Gymnasii Gallici Praeceptor.* |  
[ornate rule] | *Berolini, Typis Julii Sittenfeld.*

8°: 43 p. VERY SCARCE.

REFERENCES: BMC: 4, 1796.

**SANCTO GEMINIANO, Joannes de.**

See: **Joannes De Sancto Geminiano.**



SYSTEM OF INSTRUCTION, 1858

**SANDERS, J. Milton.**

**4252. — English, 1858** [First edition].

A | *System Of Instruction* | in | *The Practical*  
*Use* | of | *The Blowpipe.* | *Being A* | *Graduated*  
*Course Of Analysis For The Use Of Students* |  
and all those engaged in the examination of |  
metallic combinations. | [ornate rule] | *New York:*  
| *H. Baillière, 290 Broadway,* | and *219 Regent*  
*Street, London.* | *Paris: J.B. Baillière Et Fils, Rue*

Hautefeuille. | Madrid: C. Bailly-Baillière, Calle Del Principe. | 1858.

12<sup>o</sup>: [1]-11<sup>12</sup> 124  $\chi^8$ ; 144 $\ell$ .; [i]-viii, [9]-269, [3], [1]-16 p., 14 text illus., tables. Bound in green cloth, with blind stamp covers and printed endpapers advertising other books. PAGE SIZE: 187 x 125 mm.

CONTENTS: [i-ii], Title page, verso "Entered according to Act of Congress, in the year 1858, by | C.E. Baillière, | ..."; [iii]-vi, "Table Of Contents."; [vii]-viii, "Preface."—signed "S.," June 1857.; [9]-46, "The Blowpipe. | [rule] | Part First. | [ornate rule] | The Use Of The Blowpipe."; 47-108, "Part II. | [ornate rule] | Initiatory Analysis."; 109-269, "Part III. | [ornate rule] | Special Reactions; Or, The Behavior Of | Substances Before The Blowpipe."; [3 pgs], Blanks.; [1]-14, "H. Baillière's | Catalogue Of | Recent Foreign Books | ..."; [15]-16, Subject index to the titles listed in the catalog.

SCARCE. Published anonymously, but probably authored by J. Milton Sanders. This textbook intended as an introduction to the more comprehensive works of Berzelius and Plattner is divided into three parts. The first describes the equipment, methods, and use of the blowpipe in qualitative analysis. It is illustrated with good engravings of the various apparatus. The second presents a series of exercises designed for instructing the beginner. Two long tables list the reaction results of various common oxides with borax and microcosmic salt when placed within the blowpipe flame. The third section, the longest of the book, lists the reactions of specific substances including many minerals. The work concludes with a catalog of foreign works available through the publisher.

REFERENCES: NUC: 580, 395 [NS 112271].

**4253. 2nd edition, 1868:** A System of Instruction in the Practical Use of the Blowpipe. Being a Graduated Course of Analysis for the Use of Students and all those engaged in the examination of metallic combinations. Second edition. With an appendix and a copious index. By G.W. Plympton ... New York, D. Van Nostrand, 1868.

12<sup>o</sup>: [i]-vi, [2], [9]-288 p., illus., tables.

SCARCE. Edited by George Washington Plympton [1827-1907].

REFERENCES: NUC: 580, 395 [NS 112272].

**SANTI, Giorgio.** (BORN: Pienza, Tuscany, Italy, 1746; DIED: Siena, Italy, 29 December 1822) *Italian physician & naturalist.*

Santi, a celebrated naturalist, graduated from the University of Siena with a medical degree. He traveled to France, befriending Buffon, Lavoisier and other celebrated scientists of the time. He became professor of chemistry and natural history at the University of Pisa, where he also directed the museum and botanical gardens of that institution.

REFERENCES: ABI: I 885, 68-89; II 545, 407. • *Dizionario Biografico Italiani.* • Imperatori, *Dizionario di Italiani all'Estero*, 1956. • Poggendorff: 2, cols. 748-9. • WBI.

**4254. — Italian, 1795-1806** [First edition].

Viaggio | Al | Montamiata | Di | Giorgio Santi | [...2 lines of titles...] | [ornate rule] | Pisa MDCCXCV. | Per Ranieri Prosperi Stamp. Dell'Almo Stud. | Con Approbation.

3 vols. [VOL 1: 1795] 8<sup>o</sup>: viii, 356, [2] p., 7 plates, one map. Half title reads: *Viaggio primo per*

*la Toscana.* [VOL 2: 1798] 8<sup>o</sup>: [4], 451 p., 9 plates, one map. Half title reads: *Viaggio secondo per la Toscana.* [VOL 3: 1806] 8<sup>o</sup>: [4], 433 p., 7 plates, one map. Half title reads: *Viaggio terzo per la Toscana.* PAGE SIZE: 215 x 148 mm.

VERY SCARCE. Santi in these travels of Monte Amiata gives a full description of the volcanic cone and associated phenomena. He made a complete survey of the different species of minerals, catalogues all the volcanic phenomena and tested also the chemical nature of the thermal waters at San Filippo near his native town Pienza. His interest went also to botany and a thorough list of the vegetables found near Monte Amiata is also given, with interesting agricultural and gastronomical information on chestnut and chestnut trees. Sparse information is given about archeological sites. The same scheme is recognizable in his exploration of the province of Siena, where less volcanic phenomena than at Monte Amiata can be observed, but where the presence of vast quantities of tuff reveals a volcanic formation.

**Facsimile reprint, 1975:** *Viaggio al Montamiata.* Roma, Multigrafica, 1975. 3 vols.

REFERENCES: BL: [175.a.16.]. • LKG: XIV 529. • NUC: 520, 58 [NS 0118239]. • Pritzel, *Thesaurus Literaturæ Botanicae*, 1871-3: no. 8995. • Stafleu & Cowan, *Taxonomic Literature*, 1976-88: 253.

**4255. — German, 1797** [German transl.].

Naturhistorische Reise durch einen Theil von Toskana, mit einem Kupfer. Aus dem Italienischen übersetzt von Gerasimus Constantini von Gregorini. Durchgesehen mit einer Vorrede und einigen Anmerkungen von Kurt Sprengel. Halle, 1797.

8<sup>o</sup>: vi, 238 p., one plate.

VERY SCARCE. Translation by Gerasimus Constantinus de Gregorini of *Viaggio al Montamiata* (Pisa, 1795-1806), together with a forward by Kurt Sprengel [1766-1833].

REFERENCES: Agassiz, *Bibliographia Geologiae*, 1848-54: IV, 241. • BL. • NUC: [no copy listed].

**4256. French transl., 1802:** Voyage | Au Montamiata | Et | Dans Le Sienois, | Contenant des Observations nouvelles | sur la formation des Volcanos, l'Histoire | geologique, minéralogie et botanique | de cette partie de l'Italia. | Par le Docteur George Santi, Professeur | d'Histoire naturelle à l'Université de Pisa. | Traduit par Bodard, Docteur-Médecin, de la Société | des [unreadable] de Florence. | Avec Figures. | [rule] | Tome Premier. | [rule] | Lyon, | Bruyset aîné et Comp. | [double rule] | An 10. (1802).

2 vols. [VOL 1] [4], xvi, 347 p., one folding map, 3 folding engraved plates. [VOL 2] [4], iv, 494 p., one folding map, 3 folding engraved plates. PAGE SIZE: 198 x 120 mm.

VERY SCARCE. Translation by Bodard of volumes one and two of *Viaggio al Montamiata* (Pisa, 1795-98) containing more material than the first Italian of 1795, which basically included only the first volume, and of the German one of 1797, that appeared in Halle.

REFERENCES: *Freilich Sale Catalog*: no. 474. • LKG: XIV 530a & 531b. • Stafleu & Cowan, *Taxonomic Literature*, 1976-88: 10:253.

**SAUBER, Wilhelm.** (BORN: Munich, Bavaria, Germany, c1835; DIED: Munich, Bavaria, Germany, 19 December 1862) *German mineralogist.*

## SAUSSURE

Sauber was assistant at the mineralogical museum in Munich.

REFERENCES: Poggendorff: 3, 1174.

### 4257. — German, 1862.

Ueber die | Entwicklung | der | Krystall-Kunde  
| von | W. Sauber. | [rule] | München. | Druck der  
J. Deschler'schen Officin. | 1862.

8°:  $\pi^8$  2-3<sup>8</sup> 4<sup>5</sup>; 29<sup>l</sup>.; [1]-58 p. PAGE SIZE: 212 x 130 mm.

CONTENTS: [1-2], Title page, verso blank.; [3]-58, Text.

RARE. An historical treatment of the development of crystallography. After a short introduction, the first section provides a chronological list of major publications from Cardanus (1554) to Romé de l'Isle. The text is then divided into seven additional sections that each cover the work of one researcher. These are: (2) Romé de l'Isle in depth, (3) Torbern Bergman, (4) René Just Haüy, (5) Christian Samuel Weiss, (6) Adolph Theodor Kupffer, (7) Friedrich Mohs and (8) Franz Ernst Naumann. A table compares nine different crystallographic systems and a final section covers schematic projection and its development.

REFERENCES: BL. • BMC: 4, 1810. • NUC: [no copy listed].

**SAUER, Gustav Adolf.** (BORN: 1852; DIED: Stuttgart, Germany, 5 February 1932) *German petrologist & mineralogist.*

Sauer wrote a dissertation on the geology of the Canary Islands. Afterwards he was employed in the geological surveys of Saxony, Baden and Württemberg, becoming director of the last.

REFERENCES: Bach, I., "Der Geologe Adolf Sauer," *Sächs. Heimatbl.*, 22 (1976), no. 5, 220-1. • Bräuhäuser, M., [Obituary of G.A. Sauer]. *Jber. Mitt. Oberrhein. geol. Ver.*, 21 (1933), p. ix-xv, portrait. • *Mineralogical Magazine*: 23 (1933), no. 141, p. 359. • Poggendorff: 6, 2288. • *Sarjeant, Geologists*, 1980: 3, 2042.

**4258. Dissertation, 1876:** Untersuchungen über phonolithische Gesteine der Canarischen Inseln. Dissertatio inauguralis mineralogica, &c. Halis Saxonum, 1876.

8°: 64 p. VERY SCARCE.

REFERENCES: BMC: 4, 1810.

### 4259. — German, 1906.

Mineralkunde | als | Einführung in die Lehre  
vom Stoff der Erdrinde. | [short rule] | Ein Abriß  
der reinen und angewandten Mineralogie | von |  
Dr. A. Sauer | o. Professor an der Kgl. Techn.  
Hochschule in Stuttgart. | [short rule] | Mit 26  
farbigen Tafeln und mehreren hundert Textbildern.  
| [ornate rule] | Stuttgart. | Kosmos, Gesellschaft  
der Naturfreunde. | Geschäftsstelle: Franck'sche  
Verlagshandlung.

4°: 249, [55] p., 26 chromolithographic plates showing mineral specimens, 281 illus. PAGE SIZE: 230 x 310 mm.

VERY SCARCE. A large, impressive volume that presented a general picture of mineralogy in elementary language, but which is today best known for its splendid chromolithographic plates which show

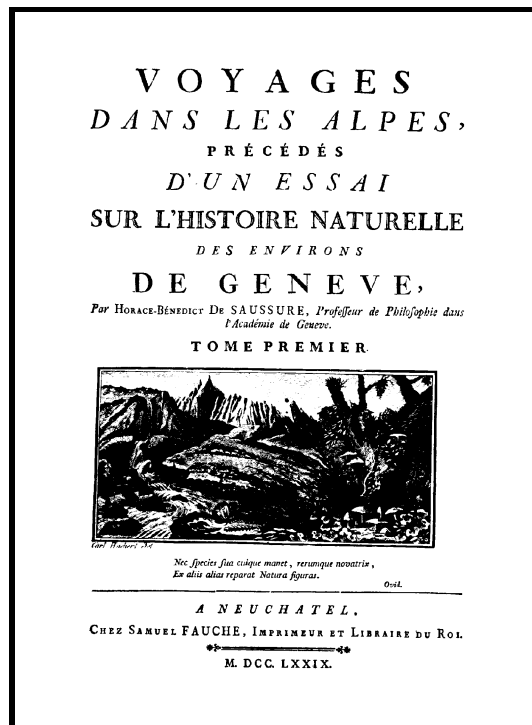
specimens and gemstones in good representations. These 26 chromolithographic plates were apparently first issued in this book, but were later also used in F. Leteur's *Traité Élémentaire de Minéralogie Pratique* (Paris, 1907) and Alexander Bernard's *Atlas Minéralû* (Praze, 1907).

REFERENCES: BMC: 4, 1810. • *Centralblatt für Mineralogie*: Jhg. 1907, p. 285. • *International Catalogue of Scientific Literature*: 1907, no. 6727 & 1909, no. 9918 [indicates the first two parts were published in 1905 while sections 3-7 appeared in 1906].

**SAUSSURE, Horace Bénédict de.** (BORN: Conches near Geneva, Switzerland, 17 February 1740; DIED: Geneva, Switzerland, 22 January 1799) *Swiss geologist, botanist & alpinist.*

From 1762 to 1786, Saussure was professor of physics and philosophy at the University of Geneva. He invented and perfected many atmospheric instruments to aid his observations, and his experiments in geology mark the beginning of petrology.

REFERENCES: AFB: I 940, 410-419; 940, 425-443; II 578, 420-422. • Barr, *Index to Biographical Fragments*, 1973: 230. • Cleavelly, *World Palaeontological Collections*, 1983: 255. • DBA: I 1083, 51-108; II 1124, 109-123. • Drugulin, *Sechstausend Portraits*, 1863: no. 4732-5. • DSB: 12, 119-23 [by A.V. Carozzi]. • *Encyclopaedia Britannica*, 11th edition. • Freshfield, D.W. and H.F. Montagnier, *The life of Horace Bénédict de Saussure*. London, 1920. • Fueter, *Grosse Schweizer Forscher*, 1941: 158-9, portrait. • *ISIS*, 1913-65: 2, 442-3. • Lambrecht & Quenstedt, *Catalogus*, 1938: 376. • Poggendorff: 2, cols. 755-6. • *Sarjeant, Geologists*, 1980: 3, 2043-4, Suppl. 1 (1985), 2, 752 & Suppl. 2 (1996), 2, 1050-1. • WBI.



VOYAGES DANS LES ALPES, 1779

**4260. — French, 1779-96** [First edition].

Voyages | Dans Les Alpes, | Précédés | D'un  
Essai | Sur L'Histoire Naturelle | Des Environs  
| De Geneve, | Par Horace-Bénédict De Saussure,  
Professeur de Philosophie dans | l'Académie de  
Geneve. | Tome Premier. | [rectangular vignette] |  
Nec species sua cuique manet, rerumque novatrix,  
| Ex aliis alias reparat Natura figuras. | Ovid.  
| [rule]A Neuchatel, | Chez Samuel Fauche,  
Imprimeur et Libraire du Roi. | [ornate rule] | M.  
DCC. LXXIX.

4 vols. [VOL 1: 1779] 4°: [iv], xxxv, 540, [1] p.  
[VOL 2: 1786] 4°: [iv], xvii, 641, [3] p. [VOL 3: 1799]  
4°: [iv], xx, 531 p. [VOL 4: 1796] 4°: [iv], 594, [2], with  
2 engraved folding maps, 22 (mostly folded) engraved  
plates, 4 very fine title-vignettes and 4 others in the  
text, 2 folding letterpress tables.

VERY SCARCE. First edition of this great classic  
on the geology of the Alps as well as a milestone  
of Alpine literature. It is the first work to give a  
detailed account of this great mountain range of Central  
Europe. "During these years he crossed the whole  
chain of the Alps no less than fourteen times and  
made in addition sixteen other traverses from the plains  
flanking the range to its central axis, and this at a time  
when there were but few roads in that part of Europe,  
which was then shunned by all travellers and where the  
passage of the mountains was not only difficult but often  
dangerous... He climbed all the accessible summits,  
collected specimens of rocks ... He was a contemporary  
of Werner and with Werner believed that this granite  
had crystallized out of the water of the primitive ocean  
... While De Saussure's book deals chiefly with the  
geology of the Alps, it contains many references to  
the inhabitants of the mountains, their hard conditions  
of life and their sterling traits of character. He also  
speaks in the most glowing terms of the pleasure of  
mountaineering and Alpine explorations..." (Adams).  
De Saussure performed experiments on the fusion of  
granites and porphyries and is considered the first  
experimental petrologist. He popularized the term  
'geology' which replaced 'geognosy'. His work provided  
James Hutton with fundamental documentation. And  
without doubt his researches contributed to the modern  
passion for mountain climbing.

**Octavo edition:** An octavo size edition was published  
almost simultaneously in 8 volumes.

REFERENCES: Adams, *Birth and Development*, 1938:  
387-89. • Brunet: 5, 150. • Dana's 7th (Bibliography): 80.  
• LKG: XIV 482. • NUC: 522, 91-2 [NS 0150999]. • Ward  
& Carozzi, *Geology Emerging*, 1984: no. 1055.

**4261. 1796-1804:** Voyages dans les Alpes. Précédés d'un  
essai sur l'histoire naturelle des environs de Genève par  
Horace-Bénédict de Saussure ... Neuchâtel, L. Fauche-  
Borel, imprimeur, 1796-1804.

4 vols. [VOL 1] 4°: xxii, 452 (i.e., 454) p., 8 plates,  
one map. [VOL 2] 4°: [4], 568 (i.e., 548) p., 6 plates, one  
map. [VOL 3] 4°: [4], xx, 532, [2] p., 2 plates. [VOL 4] 4°:  
[6], 594, [2] p., 5 plates. VERY SCARCE.

**Related work, 1852:** *Voyages dans les Alp.* Partie  
pittoresque des ouvrages de H.- B. de Saussure 2e éd.

augment ... Paris, Joël Cherbulies, 1852.

REFERENCES: NUC.

**4262. German transl., 1781-8:** Reisen durch die Alpen nebst  
einem Versuche über die Naturgeschichte der Gegenden  
von Genf. Aus dem Französischen übersetzt und mit  
Anmerkungen (von J.S. Wytttenbach). Leipzig, F.F Junius,  
1781-88.

4 vols. [VOL 1: 1781] 8°: xxvi, [2], 298 p., engraved  
title vignette, one folding map, 2 folding plates. [VOL 2:  
1781] 8°: x, [2], 327, [1] p., 5 folding plates. [VOL 3: 1787]  
8°: viii, 310 p., 2 folding plates. [VOL 4: 1788] 8°: [4],  
433 p., 6 folding plates.

VERY SCARCE. First appearance in German of  
Saussure's chief work, a milestone of mountain research  
and alpine literature. It is a translation by Jacob Samuel  
Wytttenbach of *Voyages dans les Alpes* (1779-96). The first  
two volumes contain the description of the natural history  
of the Alps, which contains some mineralogy.

**Jakob Samuel Wytttenbach.** (BORN: 1748; DIED:  
1830) *Swiss theologian*. Wytttenbach was a pastor in Bern,  
Switzerland.

REFERENCES: Graesse, *Trésor de Livres Rares*, 1859-  
69: 6, 277. • LKG: XIV 483a. • Lonchamp, F.C.,  
*L'oeuvre imprimé de Madame Germaine de Staël; description  
bibliographique raisonnée et annotée de tous les ouvrages  
publiés par ses soins ou ceux de ses héritiers (1786-1821)*.  
Genève, P. Cailler, 1949. xi, 125 p., port: no. 2615. • NUC:  
522, 91-2 [NS 0150993]. • Pritzel, *Thesaurus Literaturæ Bo-  
tanicae*, 1871-3: no. ?? (Wytttenbach) DBA: I 1400, 215-282.  
• Hamberger & Meusel, *Gelehrte Deutschland*, 1796-1834. •  
WBI.

**4263. — French, 1787.**

Relation abrégée d'un voyage à la cime du Mont-  
Blanc en août 1787. Geneva, 1787.

8°: VERY SCARCE.

**German transl., 1928:** Kurzer Bericht von einer Reise  
auf den Gipfel des Montblanc, im Aug. 1787 von H.B. de  
Saussure. Aus dem Französischen übersetzt [von Traugott  
von Gersdorf]. München, 1928. [Published as *Jahresgabe  
der Gesellschaft Alpiner Bücherfreunde*, 1.]

REFERENCES: LKG: XIV 674. • NUC.

**4264. — German, 1788.**

Kurzer Bericht von einer Reise auf den Gipfel des  
Montblanc von H.B. de Saussure, nebst Bourrit  
Reise durch das Eisthel vom Montanvert in's  
Piemontasischen. Strasbu, Akad. Buchh., 1788.

8°: 40 p. VERY SCARCE.

REFERENCES: LKG: XIV 674a\*.

**4265. — German, 1796.**

Agenda du voyageur géologue, tiré du 4e. volume  
des voyages dans les Alpes ... Par H.B. de  
Saussure ... A Genève, De l'impr. de la Bibliothèque  
britannique, Chez J.J. Paschoud, 1796.

8°: iv, 56 p.

RARE. First separate appearance, containing  
further notes on the topic and the last thoughts of  
the author published. The work originally appeared in the  
final volume of Saussure's *Voyages* published in the  
same year; however, due to Saussure's health, was never  
able to present his final theory regarding the origins  
of the earth. "Since his illness did not permit him  
to do so, he substituted, in the last volume of the  
*Voyages*, an *Agenda or General Compendium of the*

## SCHABUS

*Results of the Observations and Investigations Which Are to Serve as a Basis for the Theory of the Earth*, which he characterized as a list of the problems to be solved by his followers. He thereby placed in the hands of his successors the fruits of his thirty-six years of travel and work, and left to them the task of reaching a general theory." —DSB. The preface of the publisher indicates that Saussure has added further notes to this edition, not present in the earlier appearance.

REFERENCES: DSB: 12, p. 122. • LKG: XIII 209\*.

### 4266. — Danish, 1798.

Haandbog for reisende Geologer, med Tillaeg af forskiellige Franske Mineraloger. Oversat af det Franske med Anmaerkninger ved Gr. Wad. København, 1798.

8°:

EXTREMELY RARE. Translation by Gregers Wad [1755-1832]. Apparently an abstracted translation from Saussure's work dealing with the information needed by the geologist and mineralogist.

REFERENCES: LKG: XIII 210a.

### SAUSSURE, Louis-Albert Necker De.

See: Necker De Saussure, Louis-albert.

**SCACCHI, Arcangelo.** (BORN: Gravina, Bari, Italy, 9 February 1810; DIED: Naples, Italy, 11 October 1893) *Italian physician & mineralogist.*

Scacchi was professor of mineralogy at the University of Naples, and a member of the Academy of Sciences in Naples.

REFERENCES: ABI: I 893, 2-14; II 554, 317-318. • Barr, *Index to Biographical Fragments*, 1973: 230. • Cleavelly, *World Palaeontological Collections*, 1983: 256. • De Gubernatis, *Dizionario Biografico*, 1879. • Lambrecht & Quenstedt, *Catalogus*, 1938: 378. • Poggendorff: 3, 1176-7 & 4, 1310-1. • Sarjeant, *Geologists*, 1980: 3, 2048. • WBI.

### 4267. — Italian, 1842.

Distribuzione Sistematica dei Minerali, per servire alle lezioni di Mineralogia nella cattedra della R. Università degli Studi [of Naples]. Napoli, 1842.

8°: VERY SCARCE.

REFERENCES: BL.

### 4268. — Italian, 1842.

Quadri Cristallografici per servire alle Lezioni di Mineralogia nella cattedra della Regia Università degli Studi [of Naples]. Napoli, 1842.

8°: VERY SCARCE.

REFERENCES: BL. • Dana's 7th (Bibliography): 80.

### 4269. — Italian, 1863.

Della polisimetria dei cristalli. Napoli, Stamperia del Fibreno, 1863.

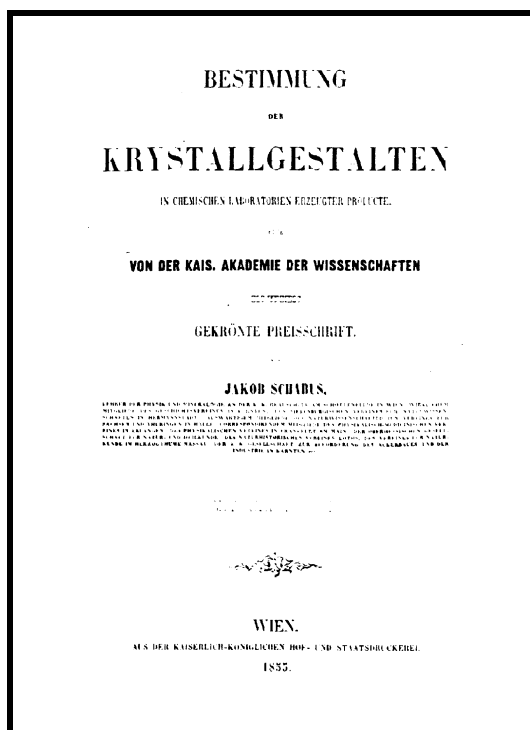
2 p., 120 p. : 4 plates. "Memoria estratta dal vol. IO degli Atti della R. accademia della scienze fisiche e matematiche."

VERY SCARCE. Crystallography

**SCHABUS, Jakob (Joseph).** (BORN: Dallach, in Obergailthal, Austria, 14 October 1825; DIED: Vienna, Austria, 26 September 1867) *Austrian chemist & physicist.*

Schabus was professor of physics at the Handesakademie in Vienna. He was a tragic figure in the history of 19th century science. Born with a brilliant and inquisitive mind, he wrote a treatise on physics which went through many editions. However, he turned psychotic and took his own life by poison at the relatively young age of forty-two.

REFERENCES: DBA: I 1084, 277-282; II 1125, 358-360. • Poggendorff: 2, cols. 767-68 & 3, 1177. • WBI. • Wurzbach, *Biographisches Lexikon Österreich*, 1856-91.



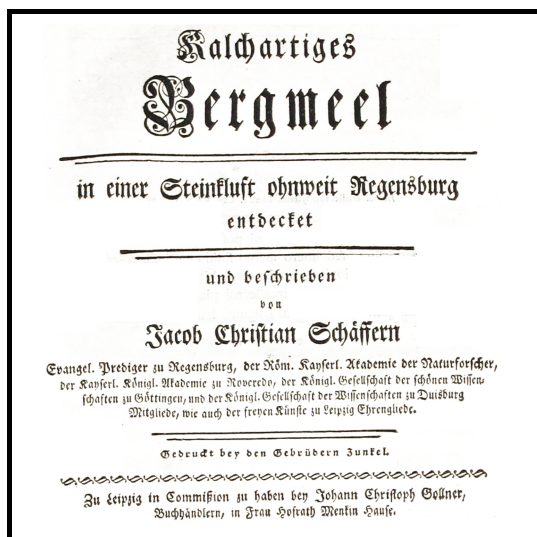
BESTIMMUNG DER KRISTALLGESTALTEN, 1855

### 4270. — German, 1855.

Bestimmung | der | Krystallgestalten | in chemischen Laboratorien erzeugter Producte. | Eine | von der Kais. Akademie der Wissenschaften | in Wien | gekrönte Preisschrift. | Von Jakob Schabus. | [...8 lines of titles and memberships...] | [rule] | Mit XXX Taflen. | [ornament] | Wein: | Aus der Kaiserlich-Königlichen Hof- und Staatsdruckerei, 1855.

8°:  $\pi^8$  1-138; 112 $\ell$ .; [i]-xv, [1], [1]-208 p., 30 plates of crystal drawings showing 168 figures. PAGE SIZE: 227 x 142 mm.

CONTENTS: [i-ii], Title page, verso blank.; [iii]-v, "Vorwort."; [vi], Blank.; vii-xii, "Commissionbericht über die Abhandlung, welche zur Beantwortung der von der kaiserl. Akademie der Wissenschaften gestellten Preisfrage



KALCHARTIGES BERGMEEL, 1760

'Bestimmung der Krystallgestalten in chemischen Laboratorien erzeugter Producte' eingelaufen war."; xiii-xv, "Inhalt."; [1]-10, "Einleitung."; 11-14, "I. Abtheilung. Verbindungen, welche in tesseralen System krystallisiren." 15-22, "II. Abtheilung. Verbindungen, welche in hexagonalen (rhomboedrischen) System krystallisiren." 23-30, "III. Abtheilung. Verbindungen, welche in tetragonalen (pyramidalen) System krystallisiren." 31-91, "IV. Abtheilung. Verbindungen, welche in rhombischen (orthotypen) System krystallisiren." 92-182, "V. Abtheilung. Verbindungen, welche in monoklinoedrischen System krystallisiren." 183-200, "VI. Abtheilung. Verbindungen, welche in triklinoedrischen (anorthischen anorthotypen) System krystallisiren." 201-208, "Übersicht der Zeichnungen."; [At end], 30 plates.

VERY SCARCE. Concerns the form of crystals created in the laboratory. Rammelsberg in his 1857 supplement to his *Krystallographische Chemie* frequently references this work.

REFERENCES: NUC: 523, 411 [NS 0174161].

#### 4271. — German, 1858.

Anfangsgründe der Mineralogie, mit kurzen Abrisse der Geognosie ... Wien, 1859.

8°: VERY SCARCE.

REFERENCES: BL.

**SCHAEFFER (Schäffer), Jacob Christian.** (BORN: Querfurt, Halle, Germany, 30 May 1718; DIED: Regensburg, Bavaria, Germany, 5 January 1790) *German theologian, botanist & entomologist.*

From 1741 Schäffer was a parson of the Evangelical Church in Regensburg. In 1779 he was promoted to a position of superintendent. Schäffer graduated from the University of Tübingen in 1763 with an advanced degree in theology. He wrote on a variety of technological subjects, including electrical phenomena.

REFERENCES: ADB. • *Biographie Universelle*. • DBA: I 1086, 210-248. • Gilbert, *Deceased Entomologists*, 1977: ?? • Hirsching, *Historisch-literarisches Handbuch*, 1794-1815. • Meusel, *Verstorbenen Teutschen Schriftsteller*, 1802-16. • *Nouvelle Biographie Générale* (Hoefer). • Poggendorff: 2, cols. 768-9. • Schrader, *Biographisch Lexicon der Tierärzte*, 1863. • WBI.

#### 4272. — German, 1757.

Kalchartiges | Bergmeel | [double rule] | in einer Steinfluft ohnweit Regensburg | entdeckt | [double rule] | und beschrieben | von | Jacob Christian Schäffern | [...4 lines of titles and memberships...] | [double rule] | Gedruckt bey den Gebrüdern Zunkel. | [ornate rule] | Zu Leipzig in Commiſſion zu haben bey J.C. Gollner, | Buchhändlern in Frau Hofrath Menkin Hause.

4°: [4], 38 p. PAGE SIZE: 220 x 175 mm.

RARE. This is an early book describing the sources and the important agricultural uses of diatomaceous earth. From the earliest times stored grain has been protected from insects by adding a powder or dust to it. Common materials include plant ash, lime, dolomite, certain types of soil, and diatomaceous earth or Kieselguhr. The last is the subject of this work, which is perhaps the most effective non-toxic natural insecticide.

Diatomaceous earth is a geological deposit made up of the fossilized skeletons of siliceous marine and fresh water organisms, particularly diatoms and other algae. These skeletons are made of hydrated amorphous silica or opal. When crushed, they break up into microscopic pieces with sharp edges. To humans it feels like a talcum powder, but the individual particles are easily picked up in the hairy bodies of most insects, whereupon scratches are made through their protective wax layers. The result is that the insects lose moisture rapidly, dry up and die.

REFERENCES: Boehmer, *Bibliotheca Historiæ Naturalis*, 1785-9: 4, pt. 2, p. 193. • Cobres, *Deliciæ Cobresianæ*, 1782: 2, p. 757, no. 33. • *Commentarii Lipsiæ*: 8, p. 346. • *Erlangische gelehrte Anmerkungen*: 1758, p. 9. • Gatterer, *Mineralogischen Literatur*, 1798-9: 2, 50. • *Göttingische gelehrte Anzeigen*: 1757, p. 1213. • *Katalog Bergakademie Freiberg*, 1879: p. 579 [VI. 479.]. • *Leipziger gelehrte Zeitung*: 1757, p. 820. • LKG: XVI 124. • NUC: 523, 627 [NS 0178870]. • Zinken's *Leipziger Sammlungen*: 14, pp. 15-24.

#### SCHALL, Carl Friedrich Wilhelm.

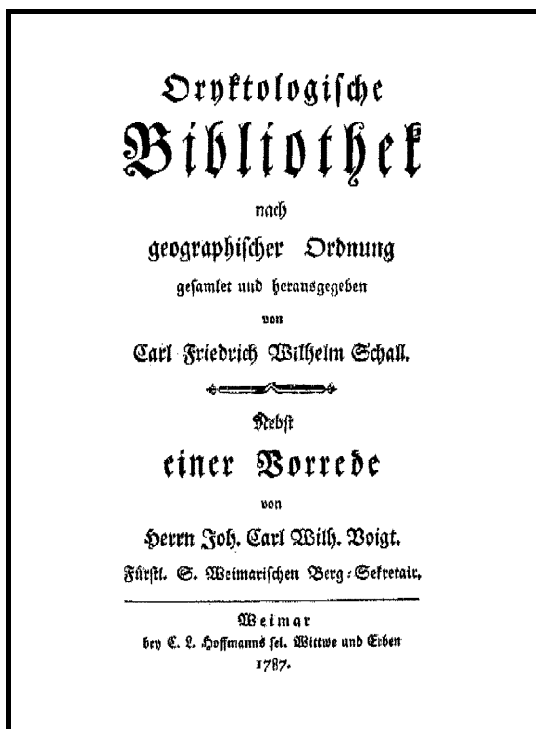
#### 4273. — German, 1787 [First edition].

Oryktologische | Bibliothek | nach | geographischer Ordnung | gesamlet und herausgegeben | von | Carl Friedrich Wilhelm Schall. | [ornate rule] | Nebst | einer Vorrede | von | Herrn Joh. Carl Wilh. Voigt. | Fürst. S. Weimarischen Berg=Sekretair. | [rule] | Weimar | bey C.L. Hoffmans sel. Wittwe und Erben | 1787.

8°: [18], [1]-286 p.

RARE. JOHANN KARL WILHELM VOIGT wrote the forward to this work which lists approximately 1650 titles related to mineralogy, paleontology and geology. The first section concerns general works, and the second lists books and articles by geographical area, i.e. Germany (subdivided by province), France, England, Russia, Asia, Africa, America, the polar regions, etc.

REFERENCES: Agassiz, *Bibliographia Geologiæ*, 1848-54: 4, p. 257. • BL: [972.h.32.]. • LKG: I 15. • NUC: [no copy listed].



ORYKTOLOGISCHE BIBLIOTHEK, 1787

4274. 2nd edition, 1789: Anleitung zur Kenntniß | der | besten Bücher | in der | Mineralogie und physikalischen | Erdbeschreibung, | nach | chronologischer und geographischer Ordnung | gesammelt und herausgegeben | von | Carl Friedrich Wilhelm Schall. | [rule] | Nebst | einer Vorrede | von | Herrn Joh. Carl Wilh. Voigt. | [rule] | Zweyte vermehrte Ausgabe. | [rule] | Weimar. 1789. | bey C.S. Hoffmanns Wittwe und Erben.

8°: [18], [1]-286, [14] p.

VERY SCARCE. A title page edition from the previous issue. The forward is by JOHANN KARL WILHELM VOIGT.

REFERENCES: BL: [957.e.12.]. • LKG: I 16a. • NUC: 524, 73 [NS 0181967]. • Petzholdt, *Bibliotheca Bibliographica*, 1866: p. 567.

#### SCHARFF, Friedrich.

4275. — German, 1857.

Der | Krystall und die Pflanze. | [double rule] | Von | Dr. Friedrich Scharff. | [short rule] | Nebst Einer Abbildung. | [ornate rule] | Frankfurt A/M. 1857 | [short rule] | Verlag Von Meidinger Sohn & Comp<sup>ie</sup>.  
8°:  $\pi^6$  1-128 137; ?? $\ell$ .; [i]-xi, [1] blank, [1]-205 p., one plate (Dendritic gold specimen).

CONTENTS: [i-ii], Title page, verso "[rule] | C. Naumann's Druckerei. Frankfurt Am Main | [rule]."; [iii], Dedication to the Senckenbergischen Naturforschenden Gesellschaft.; [iv], Blank.; [v]-vii, Introduction.—dated August 1857.; [viii], Blank.; [ix]-xi, "Nachweis über den Inhalt."; [1 pg], Blank.; [1]-205, Text.

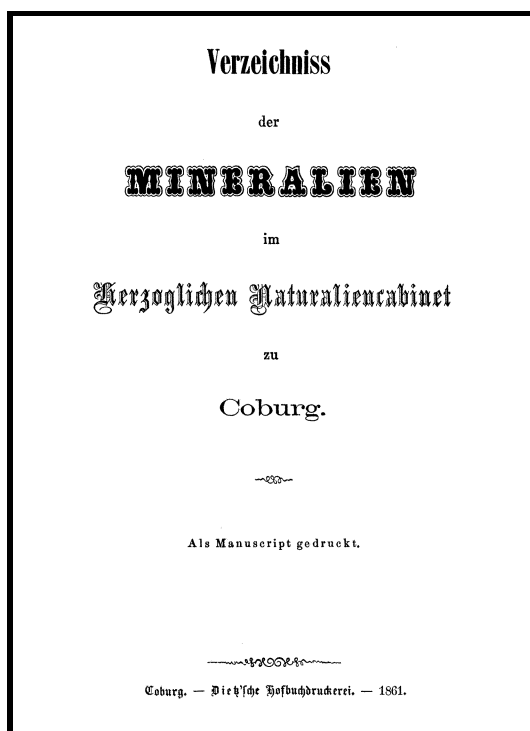
VERY SCARCE. Describes crystals, crystal structures, atoms, crystal axes, diamorphism, properties, etc.

REFERENCES: NUC. • USGS Library Catalog.

SCHAUROTH, Carl Friedrich, *Freiherr von*. (BORN: 1818; DIED: 1893) *German geologist*.

From 1837 to 1839, Schauroth studied mining at the Bergakademie in Freiberg, then mineralogy at Heidelberg (1840). In 1844 he became director (Kustode) of the Herzogl. Kunst- und Naturalienkabinett in Coburg, staying there till the year 1883. Schauroth was active as a field geologist around Coburg from 1850-1865, and specialized in stratigraphy and wrote several scientific papers about the mining, fossils, and geology of the region.

REFERENCES: Sarjeant, *Geologists*, 1980: 3, p. 2052-3. • *Verhandlungen Geologischen Reichsanstalt*, Wien: 1893, p. 211-212 [obituary].



VERZEICHNISS, 1861

4276. — German, 1861 [Collection Catalog].

Verzeichniss | der | Mineralien | im | Herzoglichen Naturalien Cabinet | zu | Coburg. | [ornate rule] | Als Manuscript gedruckt. | [ornate rule] | Coburg. — Dietz'sche Hofbuchdruckerei. — 1861.

8°: [4], [1]-133, [1] p.

CONTENTS: [2 pgs], Title page, verso blank.; [2 pgs], Foreword.; [1]-115, Description of 3883 mineral specimens, numbered 1-3883.; [116], Blank.; 117-133, Register, including localities.; [1 pg], Blank.

VERY RARE. Descriptive catalogue of the 3883 mineral specimens in the Herzogl. Kunst- und Naturalien Cabinet in Coburg (today the Naturkunde-Museum, Coburg). It was printed in only 126 copies. [Information about the book supplied by Hans-Peter Schröder.]

REFERENCES: *Katalog Bergakademie Freiberg*, 1879: p. 582 [VII 1261].

**SCHEERER, Karl Johann August Theodor.** (BORN: Berlin, Germany, 28 August 1813; DIED: Dresden, Germany, 19 July 1875) *German metallurgist & chemist.*

Doctor of philosophy, University of Berlin, 1840, Scheerer was chief metallurgist at Modum, Norway from 1833 to 1839. From 1841 to 1847 he was lecturer on mineralogy, metallurgy and fabrication at the University of Christiania, Norway. He became professor of chemistry at the Freiberg Bergakademie in 1848. Member of the Königl. Sachs. Gesellschaft der Wissenschaften.

REFERENCES: *American Journal of Science*: **110** (1875), 320. • DBA: II 1135, 151-157. • Poggendorff: **2**, cols. 777-79 & **3**, 1179-80. • Schaedler, *Biographisch Handwörterbuch*, 1891: 112. • WBI.

**4277. — German, 1840.**

De Fossilium Allanit, Orthit, Cerin, Gadolinit que Natura et Indole. Berol., 1840.

8°: VERY SCARCE.

REFERENCES: Poggendorff: **2**, cols. 777-79.

**4278. — German, 1854.**

Der | Paramorphismus | Und | Seine Bedeutung | In Der | Chemie, Mineralogie, Und Geologie. | [short rule] | Von | Dr. Theodor Scheerer, | Professor an der Königl. Sächsischen Bergakademie zu Freiburg. | [tapered rule] | Braunschweig, | Druck Und Verlag Von Friedrich Vieweg Und Sohn. | 1854.

8°: xv, 128, [2] p.

VERY SCARCE. Paramorphism and pseudomorphs.

Another researcher who extended the research in to mineral alterations was Theodor Scheerer, who authored *Der Paramorphismus und seine Bedeutung in die Chemie, Mineralogie, und Geologie* (Braunschweig, 1854). Here Scheerer differentiated a peculiar condition that he called 'paramorphism' where in a mineral having one general exterior form incases constituents having a different crystalline character. For example, he describes a natrolite crystal from Norway that normally would be an orthorhombic mineral but had an exterior form that was monoclinic in habit. Other examples are the change of aragonite to calcite (both  $\text{CaCO}_3$ ) at a certain temperature or the paramorphs of rutile after brookite (both  $\text{TiO}_2$ ) from Magnet Cove, Arkansas.

REFERENCES: BL. • NUC: **524**, 415-6 [NS 0190029].

**4279. — German, 1857.**

Bemerkungen und Beobachtungen über Aferkrystalle ... Besonderer Abdruck aus dem Handwörterbuche der reinen und angewandten Chemie, begründet von Liebig, Poggendorff und Wöhler. Braunschweig, 1857.

8°:

VERY SCARCE. Pseudomorphs.

REFERENCES: BL. • NUC: [no copy listed].

**4280. — German, 1851 [First edition].**

Löthrohrbuch. Eine anleitung zum gebrauch des löthrohrs, nebst beshreibung der vorzüglichsten

löthrohrgebläse ... von Dr. Theodore Scheerer ... Mit zusätzen versehener abdruck zweier aufsätze aus dem "Handwörterbuck der reinen und angewandten Chemie von Liebig, Poggendorff und Wöhler und Holbe." Mit in den Text eingedruckten Holzschnitten. Braunschweig: F. Vieweg und sohn, 1851.

8°: vi, [3], 113 p., illus., tables.

VERY SCARCE. Blowpipe.

REFERENCES: BL. • NUC: **524**, 415-6 [NS 0190027].

**4281. 2nd edition, 1857:** Löthrohrbuch. Eine anleitung zum gebrauch des Löthrohrs, sowie zum Studium des Verhaltens der Metalloxyde, der Metalle und der Mineralien vor dem Löthrohre, nebst Beschreibung der vorzüglichsten Löthrohrgebläse. Für Chemiker, Mineralogen, Metallurgen, Metallarbeiter und andere Techniker ... von Dr. Theodor Scheerer ... Zweite vermehrte Auflage. Braunschweig: F. Vieweg und sohn, 1857.

8°: ix, 293 p.

VERY SCARCE. Blowpipe.

REFERENCES: BL. • NUC: **524**, 415-6 [NS 0190027].

**4282. English transl., 1st edition, 1856:** An Introduction to the Use of the Mouth-Blowpipe; together with a Description of the Blowpipe Characters of the more Important Minerals. Translated and compiled by Henry F. Blanford. London, Williams & Norgate, 1856.

8°: x, 234 p., illus.

VERY SCARCE. Translation by the English geologist Henry Francis Blanford [1834-1893] of *Löthrohrbuch* (1st ed., Braunschweig, 1851).

REFERENCES: BL. • NUC: **524**, 415-6 [NS 0190023].

**4283. English transl., 2nd edition, 1864:** An Introduction to the Use of the Mouth-Blowpipe by Dr. Theodore Scheerer, to which is Added a Description of the Blowpipe Characters of the more Important Minerals. By Henry F. Blanford. Second edition. London, Williams & Norgate, 1864.

8°: x, 234 p., illus.

VERY SCARCE. Translation by the English geologist Henry Francis Blanford [1834-1893] of *Löthrohrbuch* (1st ed., Braunschweig, 1851).

REFERENCES: BL. • NUC: **524**, 415-6 [NS 0190024].

**4284. English transl., 3rd edition, 1875:** An Introduction | To The Use Of The | Mouth-Blowpipe | By | Dr. Theodore Scheerer; | To Which Is Added | A Description Of The Blowpipe Characters | Of The More Important Minerals. | By | Henry R. Blanford, F.G.S. | Third Edition, revised. | London: | Frederic Norgate, | 17, Bedford Street, Covent Garden; | Williams & Norgate, 20, Frederick Street, Edinburgh. | [short rule] | 1875.

8°:  $\pi^6$  1-14<sup>8</sup> 15<sup>4</sup> 16<sup>1</sup>; 223 $\bar{L}$ ; [i]-x, [2], [1]-234 p., illus., tables. PAGE SIZE: 165 x 102 mm.

CONTENTS: [i-ii], Half title page, "An Introduction | To The Use Of The | Mouth-Blowpipe," verso blank; [iii-iv], Title page, verso "Hertford: Printed by Stephen Austin and Sons."; [v]-vi, "Preface To The First Edition."; [vii]-x, "Index."; [1 pg], "Part I."; [1 pg], Blank; [1]-94, Text.; [95], "Part II."; [96], Blank; 97-234, Text.

VERY SCARCE. Translation by the English geologist Henry Francis Blanford [1834-1893] of ????? (18??).

REFERENCES: BL. • NUC: **524**, 415-6 [NS 0190025].

**4285. English transl., American edition, 1869:** The Blowpipe Manual. By Dr. Theodore Scheerer ... translated by William S. Clark. Amherst: Storrs & McCloud, 1869.

12°: viii, 10-84 p., tables.

VERY SCARCE. Translation by the American educator William Smith Clark [1826-1886] of *Löthrohrbuch* (2nd ed., Braunschweig, 1857).

REFERENCES: NUC: **524**, 415-6 [NS 0190020].



**4286. — German, 1866.**

Akademische Bilder aus dem alten Freiberg zum hundertjährigen Jubiläum der Bergakademie. Freiberg, 1866.

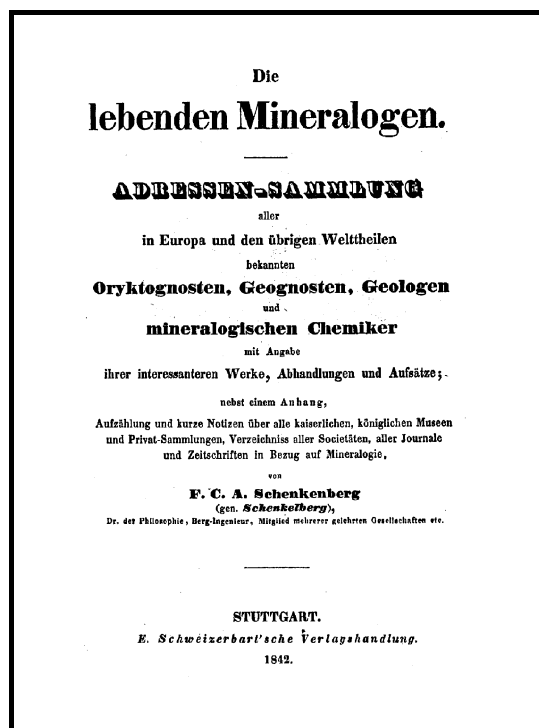
16°: 128 p., illus.

VERY SCARCE. Freiberg, Germany – Bergakademie.

REFERENCES: BL. • NUC: 524, 415-6 [NS 0190018].

**SCHEERER, Theodore.**

See: Scheerer, Karl Johann August Theodor.



DIE LEBENDEN MINERALOGEN, 1842

**SCHENKENBERG, F. Carl A.** *German? mineralogist & mining engineer.*

**4287. — German, 1842.**

Die | lebenden Mineralogen. | [rule] | Adressen-Sammlung | aller | in Europa und den übrigen Welttheilen | bekannten | Oryktognosten, Geognosten, Geologen | und | mineralogischen Chemiker | mit Angabe | ihrer interessanteren Werke, Abhandlungen und Aufsätze; | nebst einem Anhang, | Aufzählung und kurze Notizen über alle kaiserlichen, königlichen Museen | und Privat-Sammlungen, Verzeichniss aller Societäten, aller Journale | und Zeitschriften in Bezug auf Mineralogie, | von F.C.A. Schenkenberg | (gen. Schenkelberg), | Dr. der Philosophie, Berg-Ingenieur, Mitglied mehrerer gelehrten Gesellschaften etc. | [short

rule] | Stuttgart. | E. Schweizerbart'sche Verlagshandlung. | 1842.

8°:  $\pi^4$  1-10<sup>8</sup> 114; 88 $\ell$ .; [i]-viii, [1]-167, [1] p. PAGE SIZE: 226 x 130 mm.

CONTENTS: [i-ii], Title page, verso blank.; [iii-iv], Dedication to the Kaiserlichen Mineralogischen Gesellschaft at St. Petersburg and the Société imériale des Naturalistes at Moscow, verso blank.; [v]-viii, "Vorwort."; [1]-114, "I. Alphabetische Reihenfolge der Adressen der lebenden Mineralogen nebst Angabe ihrer vorzüglichern Werke."; [115]-144, "Verzeichniss aller kaiserlichen, königlichen Museen, Kabinete und Privat-Sammlungen, in Bezug auf Mineralogie."; 145-150, "III. Liste aller Akademien, gelehrten Gesellschaften und Societäten, deren Stiftung und gegenwärtiger Etat."; 150-154, "IV. Journale, Zeitschriften, Memoirs, Bulletins, Jahrbücher, die entweder ganz über Mineralogie handeln, oder auch nur einzelne Abhandlungen, Aufsätze etc. aufnehmen."; 154-164, "V. Names-Verzeichniss der Wohnorte der Mineralogen."; [165]-167, "VI. Orts-Verzeichniss der Sammlungen nach den Ländern geordnet."; [168], "Inhalt."

VERY RARE. This work is the first attempt at compiling a directory of living mineralogists throughout the world. The introduction provides a list of mineralogists that had died from 1828 through 1841. The text is then divided into six sections. The first of these presents an alphabetical sequence of living mineralogists, their addresses, and lists of their more interesting published works, dissertations, and essays. The second part gives specifications and short notes about various royal, public, and private mineral collections that had come to the compiler's attention. Part three geographically divides all the societies and learned organizations that pertained to mineralogy, and part four geographically lists all the journals and magazines that would be of interest to mineralogists. Part five then lists the location of mineralogists by the city where they reside. Organized geographically, part six lists the cities where mineralogical collections might be found. A huge amount of information related to the history of mineralogy in the early nineteenth century that would otherwise be lost is contained within this slender volume.

REFERENCES: BMC: 4, 1829. • Gąsiorowska, *Książka Adresowa Mineralogów*, 1951. • NUC: 525, 117 [NS 0198730]. • Ward & Carozzi, *Geology Emerging*, 1984: no. 1964.

**SCHEUCHZER, Johann Jakob.** (BORN: Zurich, Switzerland, 2 August 1672; DIED: Zurich, Switzerland, 23 June 1733) *Swiss geologist & palaeontologist.*

His father, Johann Jakob Scheuchzer (1645-88), was a successful physician in Zürich. In 1679 he became Stadtarzt. He died when Scheuchzer was not quite sixteen. During the 17th and 18th centuries the family was one of the leading families in Zürich.

REFERENCES: ADB: 39, 710. • Cleavelly, *World Palaeontological Collections*, 1983: 257. • DBA: I 1099, 146-219; II 1142, 34-63. • Drugulin, *Sechstausend Portraits*, 1863: nos. 4829-4835A & 6263. • DSB: 12, 159. • Fischer, H., *Johann Jakob Scheuchzer: Naturforscher und Arzt*. Zurich: Leeman, 1973. 168 p., illus. [Published as: *Veröffentlichungen der Naturforschenden Gesellschaft in Zurich*, no. 175]. • Hirsch, *Biographisches Lexikon*, 1884-8: 5, 69. • ISIS, 1913-65: 2, 448. • Lambrecht & Quenstedt, *Catalogus*, 1938: 381. • Poggendorff: 2, cols. 792-4. • Sarjeant, *Geologists*, 1980: 3, 2056, Suppl. 1 (1986), 2, 756-7 & Suppl. 2 (1995), 2, 1054-5. • Steiger, R., *Johann Jakob Scheuchzer (1672-*

1733). Zürich, 1927. 150 p., portrait. [Schweizer Studien zur Geschichtswissenschaft. Bd. 15. Heft 1, etc.]. • Steiger, R., "Verzeichnis des wissenschaftlichen Nachlasses von Johann Jakob Scheuchzer" ... Bearbeitet von Rud. Steiger," *Vierteljahrsschrift der Naturforschenden Gesellschaft in Zürich*, 75 p. (Zürich, 1933). [BLC: 11912.aaa.25]. • Walkmeister, C., "J.J. Scheuchzer und seiner Zeit," *Bericht der St. Gallischen naturwissenschaft Gesellschaft*, 1896, 364-401. • WBI. • *World Who's Who in Science*: 1490.

#### 4288. — Latin, 1702.

Specimen | Lithographiæ | Helveticæ | Curiosæ, | Quo | Lapidex Figuratis | Helveticis Selectissimi | Æri incisi mistuntur & describuntur | à | Johanne Jacobo | Scheuchzero, | Med. D. | [vignette] | Tiguri, | [rule] | Typis David Gessneri. | MDCCII. 8°: )<sup>6</sup> A-D<sup>8</sup> E<sup>2</sup>; 40ℓ.; [12], 1-67, [1] p., 7 plates ( by J. Melchior Füesli showing stones, fossils and minerals; in some states the plates are hand-colored).

CONTENTS: [2 pgs], Title page, verso blank; [9 pgs], Dedication to Francisco Honorio, signed Joh. Jac. Scheuchzer, May, 1702; [1 pg], "Lectori Benevolo Salutem."; 1-67, Text.; [1 pg], Blank.; [At end], 7 plates.

RARE. In the year 1702 Scheuchzer published a work with the title *Specimen Lithographiæ Helveticæ Curiosæ*, in which he described 'figured stones, as sports or jests of Nature. But having afterwards procured a copy of Woodward's *Essay*, which he translated into Latin, he adopted the opinion that these stones are relics of the Deluge, and upheld this view in his subsequent writings. It is a useful catalog of the names which up to his time had been given to the figured stones, giving references to some of the published descriptions of them.

REFERENCES: BL: [954.a.13.(1.)]. • LKG: XIV 462d. • NUC: 525, 296-8 [NS 0202663]. • Roller & Goodman, *Catalogue*, 1976: 2, 406.

#### Physica oder Naturwissenschaft

#### 4289. — German, 1701 [First edition].

Physica oder Naturwissenschaft, verfasst durch J.J. Scheuchzer. Zurich, 1701.

2 vols. [VOL 1] 8°: [VOL 2] 8°:

RARE. An introduction to natural science by a member of the British & Prussian Royal Societies. The concluding chapter is an essay on man, the microcosm.

REFERENCES: LKG: XVII 18.

**4290. 2nd edition, 1711:** Physica, oder Natur-wissenschaft. Verfasst durch Joh. Jacob Scheuchzer ... Zweite verbesserte und vermehrte auflage so mit nöthigen kupfern versehen. Zürich, In verlegung Heinrich Bodmers, 1711.

2 vols. [VOL 1] 8°: [28], 275 p. [VOL 2] 8°: [16], 350 p., 19 folding plates. RARE.

REFERENCES: Hoover Collection: no. 719.

**4291. 3rd edition, 1729:** Physica, oder, Natur-Wissenschaft verfasst durch Joh. Jacob Scheuchzer ... Anietzo bey dieser neuen Auflage, durch und durch vermehret und mit nöthigen Kupfern versehen. Zürich, bey Heidegger und Comp., 1729.

2 vols. [VOL 1] 8°: [16], 302 p. [VOL 2] 8°: 480, [26] index p., 24 engraved plates (folding).

RARE. An introduction to natural science by a member of the British & Prussian Royal Societies; the concluding chapter is an essay on man, the microcosm. Includes index.

**4292. 4th edition, 1743:** Physica, oder Natur-Wissenschaft ... Die 4. Auflage in welcher die Schreib-Art des ... Verfassers ... nach der hochdeutschen Mund-Art verbessert, und das ganze Werke ... mit vielen Kupfern [16 Tafeln] ... versehen worden. Zürich, Heidegger, 1743.

2 vols. RARE.

REFERENCES: BL: [8707.b.4.].

#### Naturgeschichte des Schweizerlandes

#### 4293. — German, 1706-8 [First edition].

Beschreibung der Naturgeschichte des Schweizerlandes. Zürich, In Verlegung des Authoris, 1706-8.

3 parts in one volume. [Part 1: 1706] 4°: [4], 50, [2], 51-188 [i.e. 190] p., 12 leaves of plates (1 folded). [Part 2: 1707] 4°: [4], 108 [i.e. 208] p., 4 leaves of plates (2 folded). [Part 3: 1708] 4°: [4], 208 p., 12 leaves of plates (10 folded). Errors in pagination: v. 1, p. 94-95 omitted in numbering; v. 2, p. 100-108 repeated in numbering. Each part has separate title page. Parts 2-3 published: Zürich, In Verlegung des Authoris. Getruckt bey Michael Schaufelb. s.E. Und Christoff Hardmeier, 1707-1708

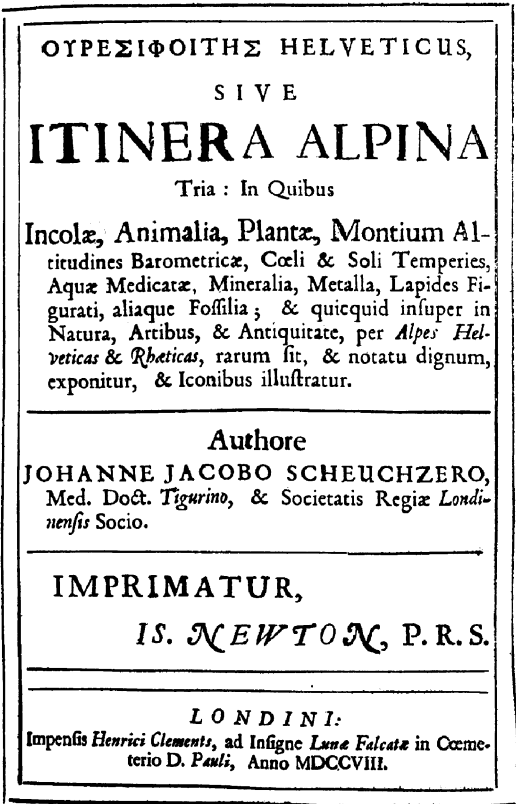
VERY SCARCE. The first edition in book form of a series that appeared in weekly sections between 11 February 1705 and 28 December 1707 that recounts Scheuchzer's observations on the natural history, geography and meteorology. This edition built the foundation on which the later better organized with commentary *Natur-Geschichte des Schweizlandes* (1716-18), which was an epoch work in contemporary natural history and ethnology of Switzerland. Scheuchzer undertook yearly trips through his homeland making observations, becoming an early pioneer in alpine science. For example, the third volume contains the first printed map of "Glarnerlandes" engraved by J.M. Füßli, which was funded by Scheuchzer. Other plates show scenic views, plants, petrifications, and a few mineral specimens.

REFERENCES: BL: [444.b.19.]. • Blumer, *Die topograph. Karten des Kantons Glarus*, 1950: 12ff. • Haller, *Bibliotheca Botanica*, 1771-2: 1, 1042. • Hoover Collection: no. 717. • Lehner, *Eroberung der Alpen*: 65ff. • LKG: XIV 463e. • Lonchamp, F.C., *L'oeuvre imprimé de Madame Germaine de Staël; description bibliographique raisonnée et annotée de tous les ouvrages publiés par ses soins ou ceux de ses héritiers (1786-1821)*. Genève, P. Cailler, 1949. xi, 125 p., port: 2637. • Perret: 3945. • Steiger, R., *Johann Jakob Scheuchzer (1672-1733)*. Zürich, 1927. 150 p., portrait. [Schweizer Studien zur Geschichtswissenschaft. Bd. 15. Heft 1, etc.]: 24, 27 & 29. • Wolf, *Geschichte der Vermessungen in der Schweiz*: 48ff.

#### Helveticus, sive Itinera Alpina Tria

#### 4294. — Latin, 1708 [First edition].

[Contained in a double rule box:] ΟΥΡΕΣΙΦΟΙΤΗΣ Helveticus, | Sive | Itinera Alpina | Tria: In Quibus | Incolæ, Animalia, Plantæ, Montium Al- | titudines Barometricæ, Coeli & Soli Temperies, | Aquæ Medicatæ, Mineralia, Metalla, Lapidēs Fi- | gurati, aliaque Fossilia; & quicquid insuper in | Natura, Artibus, & Antiquitate, per Alpes Hel- | veticas & Rhæticas, rarum sit, & notatu



OYREΣIΦOITHΣ HELVETICUS, 1708

dignum, | exponitur, & Iconibus illustratur. | [rule] | Autore | Johanne Jacobo Scheuchzero, | Med. Doct. Tigurino, & Societatis Regiæ Londinensis Socio. | [rule] | Imprimatur, | Is. Newton, P. R. S. | [rule] | [rule] | Londini: | Impensis Henrici Clements, ad Insigne Luna Falcatæ in Cœmeterio D. Pauli, Anno MDCCVIII.

3 parts in one volume. [Part 1] 4°:  $\pi^2$  B-H<sup>4</sup> I<sup>2</sup>; 32 $\ell$ .; [4], 1-57, [1] p., engraved title page, frontspiece (portrait of Scheuchzer by J. Nutting), 10 plates. [Part 2] 4°:  $\pi^1$  B-I<sup>4</sup>; 37 $\ell$ .; [2], 1-72 p., engraved title page, frontspiece, 21 plates. [Part 3] 4°:  $\pi^1$  B-D<sup>4</sup>; 12 $\ell$ .; [2], 1-22 p., engraved title page, frontspiece, 10 plates.

"With 1 frontspiece portrait engr. by Melchior J. Nutting after Melchior Füssli, 3 engr. titles (1folding), 40 (of 41) num. engr. plates (14 folding). 3 leaves, 57 pp.; printed title, 72 pp.; printed title, 22 pp.

CONTENTS: [Part 1] [2 pgs], Title page, verso blank.; [Plate.]; [1 pg], "OYREΣIΦOITHΣ | Helveticus, | [...3 lines of text...] | Anno MDCCII | ..."; [1 pg], Blank.; [1 pg], Dedication to the Royal Society of London.; [1 pg], Blank.; 1-57, Text.; [1 pg], Blank.; [At end], 10 plates.

[Part 2] [Frontspiece, dedication to the Royal Society of London]; [2 pgs], Title page, verso blank.; 1-72, Text.; [At end], 21 plates.

[Part 3] [Frontspiece, dedication to the Royal Society of London]; [2 pgs], Title page, verso blank.; 1-22, Text.; [At end], 10 plates.

VERY SCARCE. These volumes were published at

the expense of the Royal Society of London and have an interesting connection to Sir Issac Newton [1642-1727] — the frontispiece to each of the three parts was printed at his expense. The fact that the book was published in London, with the assistance of the Royal Society and its president, Isaac Newton, and special help from Hans Sloane, is an interesting example of international scientific solidarity. The explanation for this generous engagement was certainly the uniqueness of the work, which was a pioneering accomplishment and an example for similar publications in other countries. Each account of a tour is concluded by a list of the rare plants encountered there, which are often depicted on the plates. Scheuchzer was the first scientist in Switzerland to possess mathematical and physical instruments. From 1702 onwards he travelled the Alps year by year recording his numerous observations. The cumulative results are published in *Helveticus, sive Itinera Alpina Tria*, the first scientific research dealing with the natural history, palaeontology, geology, mineralogy, physics, and glaciology (a science first established in this work). He also describes activities of humans in these regions, herding dairy cattle on summer pastures, gathering wild hay, and hunting the chamois. The fine engraved plates show plants, machinery, watercourses, alpine walkways, minerals, etc.

REFERENCES: Agassiz, *Bibliographia Geologiæ*, 1848-54: IV 261. • BL: [446.c.18.]. • Hoover Collection: no. 718. • LKG: XIV 460b. • Roller & Goodman, *Catalogue*, 1976: 2, 405.



HELEVETICUS, SIVE ITINERA, 1723

**4295. 2nd edition, 1723:** [In black:] ΟΥΠΕΣΙΦΟΙΤΗΣ | Heleveticus, | Sive | [in red:] Itinera | [in black:] Per | [in red:] Helvetiæ | Alpinas Regiones | [in black:] Facta | Annis | MDCCII. MDCCIII. MDCCIV. MDCCV. MDCCVI. | MDCCVII. MDCCIX. MDCCX. MDCCXI. | Plurimis Tabulis æneis illustrata | à | [in red:] Johanne Jacobo Scheuchzero, | [in black:] Figurino, Med. D. Math. Prof. Acad. Leopoldino-Carolinæ & Soce. | Regg. Anglicæ ac Prussicæ Membro. | [in red:] | In Quatuor Tomos Distincta. | [in black:] Tomus Primus, | Novissimè atque auctior Editus, & comprehensens | [in red:] Itinera Annorum MDCCII. MDCCIII. MDCCIV. | [in black:] [vignette] | Lugduni Batavorum, | Typis ac Sumptibus [in red:] Petri Vander Aa. | [in black, rule] | M D CC XXIII.

4 vols. [vol 1] 4°: \*4 \*\*3 A-V4 X5; 91ℓ.; [14], 1-167, [1] p., frontispiece (portrait of Scheuchzer), 50 plates. Title page in red and black, with engraved vignette. [vol 2] 4°: πY-Vv4; 93ℓ.; [4], 169-350 p., 19 plates. Title page in red and black, with engraved vignette. [vol 3] 4°: Yy-Vvv4; 85ℓ.; [351]-520 p., 46 plates. Title page in red and black, with engraved vignette. [vol 4] 4°: Xxx-Ssss4; 84ℓ.; [521]-635, [53] p., 20 plates. Title page in red and black, with engraved vignette.

CONTENTS: [Vol 1] [Frontispiece]; \*1rv, Title page, verso "Perillustri | Societati Regiæ | Anglicæ | ..."; \*2r-\*3v, "Præfation | Ad Lectorem."; \*4r-\*4v, "Petrus Vander A. | Lectori Salutem."; \*4v-\*3r, "Catalogus Liborum."; \*3r-\*3v, "Avis Au Relieur."; [1/=A1r], Sectional title page, "Joannis Jacobo Scheuchzeri, | [...3 lines of text...] | ΟΥΠΕΣΙΦΟΙΤΗΣ | Heleveticus, | [...3 lines of text...] | Anni MDCCII."; [2/=A1v], Blank; 3-167 (=A2r-X5r), Text.; [1 pg/=X5v], Blank.

[Vol 2] [2 pgs/=π1], Title page, verso blank; [1 pg/=Y1r], Sectional title page, "Joannis Jacobo Scheuchzeri, | [...3 lines of text...] | ΟΥΠΕΣΙΦΟΙΤΗΣ | Heleveticus, | [...3 lines of text...] | Anni MDCCV."; [1 pg/=Y1v], Blank; 169-350 (=Y2r-Vv4v), Text.

[Vol 3] [350-351/=Yy1rv], Title page, verso blank; 353-520 (=Yy2r-Vvv4v), Text.

[Vol 4] [521-522/=Xxx1rv], Title page, verso blank; 523-635 (=Xxx2r-Mmmm2r), Text.; [53 pgs/=Mmmm2v-Ssss4r], "Index."; [1 pg/=Ssss4v], Blank.

VERY SCARCE. The most comprehensive and sought-after edition of this splendid work, with excellent the depictions on the plates. The polymath J. J. Scheuchzer undertook, together with a small group of students, nine excursions into the Alpine regions of Switzerland between 1702-11. The three first excursions were published in 1708 by the British Royal Society of which Scheuchzer was a member. Isaac Newton, then president of the Society, himself contributed 20 pounds to the high costs of this publication, due mainly to its lavish illustration. The whole collected excursions were published only in 1723, and it was this edition which became probably Scheuchzer's most consulted work. His main merits as an investigator were in the fields of barometry, palaeontology and botany. He contributed the foundation for an exact knowledge of the country as it presented itself in the 18th century; even Schiller drew inspiration and information from these works for his 'Wilhelm Tell.' At the end of vol. IV, Scheuchzer gives a detailed account of his scientific publications. The fine engravings show views of Aarau, Aarberg, Altdorf, Baden, Bern, Bienne, Brugg, Chur, Fribourg, Glarus, Lausanne, Lucerne, Plurs before and after the landslide, Rapperswil, Schwyz, Solothurn, St. Gall, Zurich (2), and many more villages and towns, as well as castles and manors. 'Iter 5' contains 11 plates depicting dragons and other mythological animals.

REFERENCES: BL: [792.k.11.]. • LKG: XIV 461c. • Nissen (ZBI): no. 3657. • Roller & Goodman, *Catalogue*, 1976: 2, 405.

### Herbarium Diluvianum

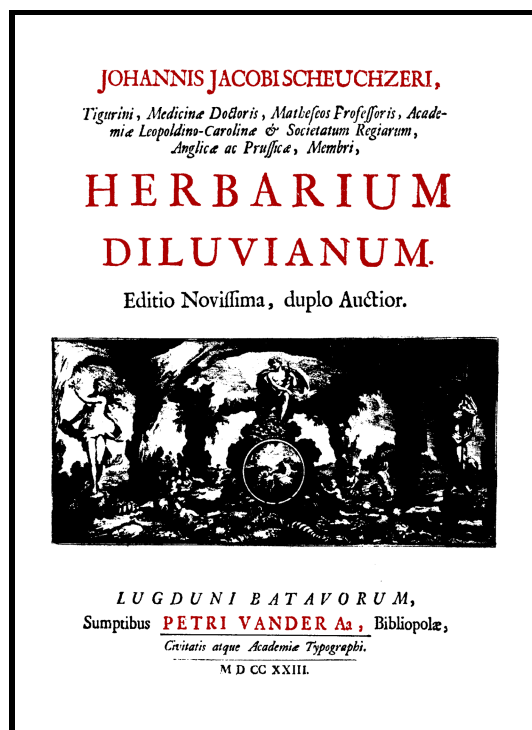
**4296. — Latin, 1709** [First edition].

Herbarium diluvianum collectum a Johanne Jacobo Scheuchzero. Tiguri, Literis Davidis Gessneri, 1709.

2°: 44 p., 10 leaves of plates title page is engraved., with plates. Pages 33-34 omitted in numbering.

VERY RARE. Palaeobotany, the study of fossils of plants, is represented by the *Herbarium Diluvianum* of Scheuchzer. Although preceded by the Welshman, Edward Llwyd, who published several pictures of fossil plants from the collections in the Ashmolean collection in 1699, the first edition of Scheuchzer's work is generally regarded as the first really comprehensive and well illustrated treatise on the subject. As the title suggests, Scheuchzer another in the long line of pious botanists and physicians who had a strong belief in their religion—leading to his surmise that the specimens discussed had been preserved from Noah's flood. The work was of sufficient importance to establish Scheuchzer as the father of Swiss, and in the views of some, of European palaeobotany.

REFERENCES: BL: [B.262.(1.)]. • LKG: XVII 157. • Pritzel, *Thesaurus Literaturæ Botanicae*, 1871-3: no. 8173.



HERBARIUM DILUVIANUM, 1723

**4297. 2nd edition, 1723:** [In red:] Johannis Jacobi Scheuchzeri, | [...in black, 3 lines of titles and memberships...] | [in red:] Herbarium | Diluvianum. | [in black:] Editio Novissima, duplo Auctior. | [vignette] | Lugduni Batavorum, | Sumptibus [in red:] Petri Vander Aa, [in black:] Bibliopolæ, | Civitatis atque Academiæ Typographi. | [rule] | M D CC XXIII.

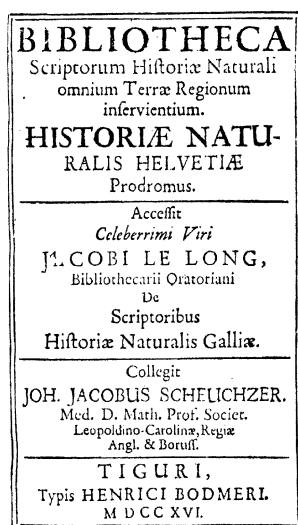
2°: \*2 A-P4 Q2 (Q2 missigned P2); 64ℓ.; [4], [1]-119, [5] p., frontispiece (engraved portrait of Scheuchzer),

one engraved title-page with vignette, one engraved subtitle with vignette printed in red and black, and 14 engraved plates (numbered Tab. I to Tab. XIV showing fossil leaves, dendrites, quartz crystals and *Lustæ Naturæ*).

CONTENTS: [Frontispiece].; [Engraved title page, verso blank].; [\*1/=2 pgs], Printed title page, verso blank.; [\*2r/=1pg], Dedication to Francisco Xaverio.; [\*2v/=1 pg], Blank.; [1]-[4] (=A1r-A2v), "Præfatio | Ad | Lectorem, | Priori Editioni | Præmissa." [the preface to the second edition starts on A2r].; 5-59 (=A3r-H2r), Text.; 59-[62] (=H2r-H3v), "Index." [begins on H2r, p. 59].; 63-119 (=H4r-P4r), "Appendix."; [P4v-Q2r/=4 pgs], "Index | In | Appendicem."; [Q2v/=1 pg], "Catalogus Librorum."; [At end], 14 plates.

RARE. Second much enlarged edition. The first edition was published in 1709. Johann Scheucher is "considered the founder of paleobotany and his 'Herbarium diluvianum' remained a standard work through the nineteenth century" (DSB).

REFERENCES: BL: [435.i.12.]. • Nissen (BBI): no. 1752. • Roller & Goodman, *Catalogue*, 1976: 2, 405. • Ward & Carozzi, *Geology Emerging*, 1984: no. 1971.



BIBLIOTHECA, 1716

**4298. — Latin, 1716** [First edition].

[Contained within a double rule box:] Bibliotheca | Scriptorum Historiæ Naturali | omnium Terræ Regionum | inservientum. | Historiæ Naturalis Helvetiæ | Prodromus. | [rule] | Accessit | Celeberrimi Viri | Jacobi Le Long, | Bibliothecarii Oratoriani | De | Scriptoribus | Historiæ Naturalis Galliæ. | [rule] | Collegit | Joh. Jacobus Scheuchzer, | [...3 lines of titles and memberships...] | [rule] | Tiguri, | Typis Henrici Bodmeri. | MDCCXVI.

8°: )(7 A-P8  $\chi^1$  (=)(8?); 128 $\ell$ .; [14], 241, [1] p.

VERY SCARCE. The earliest bibliography general bibliography of the subject listing among other topics geology and mineralogy. It was compiled as a preparation for the author's comprehensive work on the natural history of Switzerland, the first volume of which also appeared in 1716. It is arranged according

to countries, including a section on America. The last section of the text contains a list of French writers on natural history, compiled by the famous bibliographer J. le Long [1665-1721].

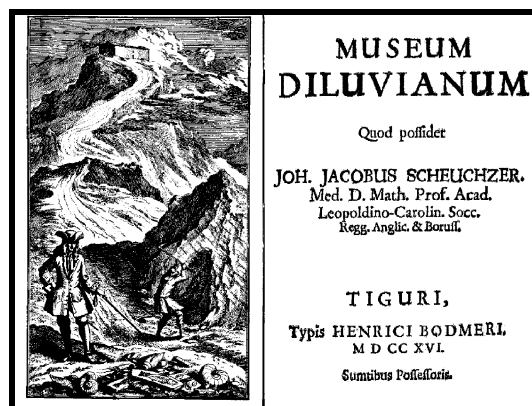
REFERENCES: BL: [957.b.16.]. • Cobres, *Deliciæ Cobresianæ*, 1782: 1, 4. • NUC: 525, 296-8 [NS 0202613].

**4299. 2nd edition, 1751:** Bibliotheca | Scriptorum Historiæ naturalis | omnium Terræ Regionum | inservientum. | Historiæ Naturalis Helvetiæ | Prodromus. | [rule] | Accessit | Celeberrimi Viri | Jacobi Le Long, | Bibliothecarii Oratoriani | de | Scriptoribus | Historiæ naturalis Galliæ. | [rule] | Collegit | Joh. Jacobus Scheuchzer, | [...3 lines of titles and memberships...] | [double rule] | Tiguri, | Typis Heideggeri & Soc. | MDCCCLI.

8°: [14], 241 p.

SCARCE. Reprint of the 1716 with the same pagination, but new title page.

REFERENCES: NUC: 525, 296-8 [NS 0202614]. • Poggendorff: 2, cols. 792-94. • Roller & Goodman, *Catalogue*, 1976: 2, 405.



MUSEUM DILUVIANUM, 1716

**4300. — Latin, 1716** [Collection catalog].

Museum | Diluvianum | Quod possidet | Joh. Jacobus Scheuchzer, | [...3 lines of titles and memberships...] | Tiguri, | Typis Henrici Bodmeri. | M D C C XVI. | Sumtibus Possessoris.

8°:  $\pi^6$  A-G<sup>8</sup>; 62 $\ell$ .; [12], 1-107, [5] p., frontispiece (showing a standing Scheuchzer in search of specimens in the mountains with Noah's Ark in the background).

CONTENTS: Frontispiece.; [2 pgs], Title page, verso blank.; Dedication to Hans Sloane.; [1 pg], Blank.; [1 pg], Several quotations from the Bible (Book of Genesis) in Latin and Greek.; [4 pgs], "Lectori Salutem."; [2 pgs], "Conspectus brevis totius Orycto- | phylacii Diluviani."; [1 pg], Blank.; 1-107, Text.; [4 pgs], "Syllabus Scriptorum à Scheuchzeris | Fratribus hactenus elaboratorum" [=list of publications by Scheuchzer.]; [1 pg], Blank.

VERY RARE. The text provides a catalog of geological specimens contained in Scheuchzer's cabinet. The specimens cataloged all support Scheuchzer's belief in the biblical deluge and are paleontological in nature. *Plantæ Diluvinae* (fossil plants) are by far the most prevalent descriptions occupying pages 2-99, while animals (pp. 100-102), fish (pp. 102-105) and birds, insects and humans (pp. 106-107) complete the catalog.

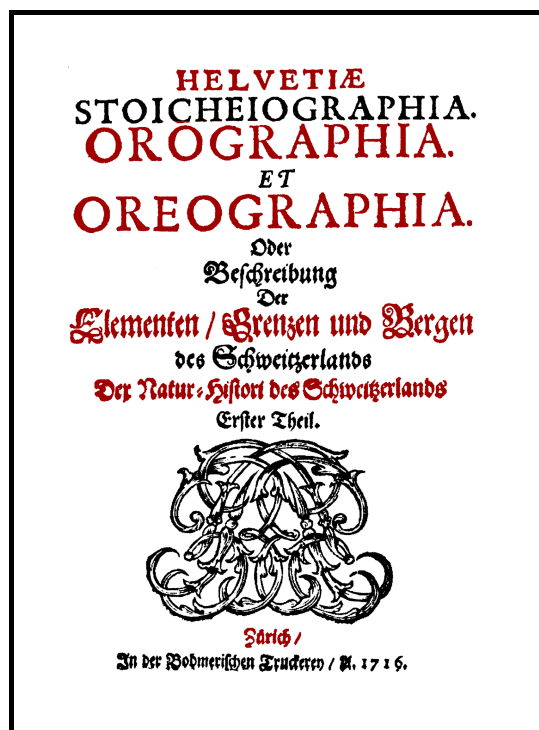
REFERENCES: BL: [444.a.17.]. • LKG: XVII 19a. • Roller & Goodman, *Catalogue*, 1976: 2, 405.

**4301. — Latin, 1731.**

Nova ex summis Alpibus. Tiguri, 1731.

2°: RARE.

REFERENCES: BL: [445.g.24.(2.)].



HELVETIÆ STOICHEIOGRAPHIA, 1716

**4302. Part 1, 1716:** [In red:] Helvetiæ | [in black:] Stoicheiographia. | [in red:] Orographia. | [in black:] Et | [in red:] Oreographia. | Oder | Beschreibung | Der | [in red:] Elementen / Grenzen und Bergen | [in black:] des Schweizerlands | [in red:] Der Natur=Histori des Schweizerlands | [in black:] Erster Theil. | [ornament] | [in red:] Zürich / | [in black:] In der Bodmerischen Truckerey / A. 1716.

[TITLE OF PART 2 READS:]

[In red:] Hydrographia | [in black:] Helvetica | Beschreibung | Der | [in red:] Seen/ Flüssen/ Brunnen | [in black:] Warmen und Kalten Bädern/ und | anderen Mineral-Wasseren | Des | [in red:] Schweizlands. | [rule] | Der Natur=Histori des Schweizlands | Zweyter Theil. | Von | Joh. Jacob Scheuchzer/ Med. Doct. | Math. Prof. | [rule] | Zürich/ | In der Bodmerischen Truckerey/ 1717.

[TITLE OF PART 3 READS:]

[In red:] Meteorologia | [in black:] Et | [in red:] Oryctographia | [in black:] Helvetica | Oder | Beschreibung | [in red:] Der Luft Beschichten/ Steinen/ | [in black:] Metallen/ und anderen Mineralien | des Schweizlands/ absonderlich auch | der Überbleibfelen der Sündfluth. | Von | Joh. Jacob Scheuchzer/ Med. D. Math. P. | [...2 lines of titles and memberships...] | [rule] | Ist der Dritte oder eigentlich der Sechste | Theil der Natur=Geschichten des | Schweizlands. | [rule] | [in red:] Zürich | [in black:] In der Bodmerischen Truckerey/ 1718.

3 vols. [VOL 1: 1716] 4°:  $\pi^2$  A-Kk<sup>4</sup>  $\chi^2$ ; ?? $\ell$ ; [4], [1]-268, [8] p., frontispiece, 6 plates, including one with an overlap showing Plurs before and after the great rock fall. Woodcut ornaments. Title printed in red and black. [VOL 2: 1717] 4°: )(4 )(4 A-Mmm<sup>4</sup> Nnn<sup>4</sup>; ?? $\ell$ ; [16], 1-480, [8] p., 10 plates. Title printed in red and black. [VOL 3: 1718] 4°: )(4 )(4 A-Ss<sup>4</sup>; ?? $\ell$ ; [16], 1-336 p., 19 plates. Title printed in red and black.

8°: 8vo, mit 1 Vorblatt, 1 Titel in rot und schwarz, 1 Inhaltsverzeichnis mit 4 Tafeln, 134 Blatt Text und 2 Register; 7 Blatt Register, 3 Tafeln, Seite 397 teilweise ausgerissenes Blatt, dieses ergänzt, 238 Seiten, 3 Blatt Register, 1 Blatt Bericht an den Buchbinder, 1 Erkl. Blatt zum Bergsturz von Plurs, 480 Seiten Title in red and black.

CONTENTS: [Vol 1] [2 pgs], Half title page, "Helvetica | Historia Naturalis | Oder | Natur=Historie | Der | Schweizlands | Aufgesetzt von | Joh. Jacob Scheuchzer Med. D. | [...4 lines of titles and memberships...], verso blank.; [Frontispiece]; [2 pg], Title page, verso "Anwesung an den Buchbinder."; [1]-268, Text.; [4 pgs], "Register."; [2 pgs], "Des untergangenen Fleten Plurs..."; [1 pg], "Kurzer Begriff | Der Materialien/ so in diesem Ersten | Theil enthalten."; [1 pg], "Kurzer Vorstellung | Aller Materialien/ so in dem ganzen | Werk verhandlet werden."

[Vol 2] [2 pgs], Title page, verso blank.; [13 pgs], "Kurzer Vorstellung der in diesen Theil | verhandelten Materien."; [1 pg], Blank.; 1-480, Text.; [6 pgs], "Register."; [1 pg], Errata.; [1 pg], Blank.

[Vol 3] [2 pgs], Title page, verso blank.; [4 pgs], "Vorred."; [10 pgs], "Kurzer Entwurff." [=table of contents]; 1-336, Text.

RARE. First self contained section from Scheuchzer's *Natur=Historie des Schweizerlandes* which was extended to three parts up to 1718. This section covers the physical geography of the country, including details on climate, geology and details on the alps (including a printing of Gesner's *Descriptio Montis Fracti sive Montis Pilati juxta Lucernam in Helvetia*). The portion of mineralogical interest is volume three of this work, titled: "Meteorologia & Oryctographia Helvetica. Oder Beschreibung der luftt-Geschichten, Steinen, Metallen, und anderen Mineralien des Schweizerlands, absonderlich auch der Überbleibseln der Sündfluth ... Ist der III. oder eigentlich der 6. Theil der Natur- Geschichten des Schweizlands."

Facsimile reprint, 1978/9: *Helvetiae stoicheiographia. Orographia. Et Oreographia. Oder Beschreibung Der Elementen, Grenzen und Bergen des Schweizerlands. Der Natur-Histori des Schweizerlands. Erster Theil. / Hydrographia Helvetica. Beschreibung der Seen, Flüssen, Bruennen, Warmen und kalten Bädern, und anderen Mineral-Wasseren des Schweizerlands. Der Natur-Histori des Schweizerlands. Zweyter Theil. / Meteorologia et Oryctographia Helvetica. Oder Beschreibung Der Luftt-Geschichten, Steinen, Metallen, und anderen Mineralien des Schweizerlands, absonderlich auch der Überbleibseln der Sündfluth. Ist der dritte oder eigentlich der sechste Theil der Natur-Geschichten des Schweizerlands.* Mit einem Begleitext. Zürich, Orell Füssli, 1978. 8°: 268 p.; 480 p.; 336 p.; 35 p., many illus. [Reprint of the 1716 edition, Zurich, Bodmer, 1716, and containing additional essay of 40 pages by Arthur Dürst.]

REFERENCES: Beekman, *Systematische Mineralogie*, 1906: p. 31. • BL: [462.a.14.15.]. • Cobres, *Deliciae Cobresianae*, 1782: 1, 247-48. • DSB: 12, p. 159. • Haller, *Bibliotheca Botanica*, 1771-2: 1, 1044-46. • Lambrecht & Quenstedt, *Catalogus*, 1938: p. 381. • LKG: XIV 464f-h. • NUC: 525, 296-8 [NS 0202635]. • Roller & Goodman, *Catalogue*, 1976: 2, 405. • Zittel, *Geschichte der Geologie*, 1899: pp. ??.

**Physica Sacra**

**4303. — Latin, 1731-5** [First edition].

Physica sacra Johannis Jacobi Schevchzeri, ...



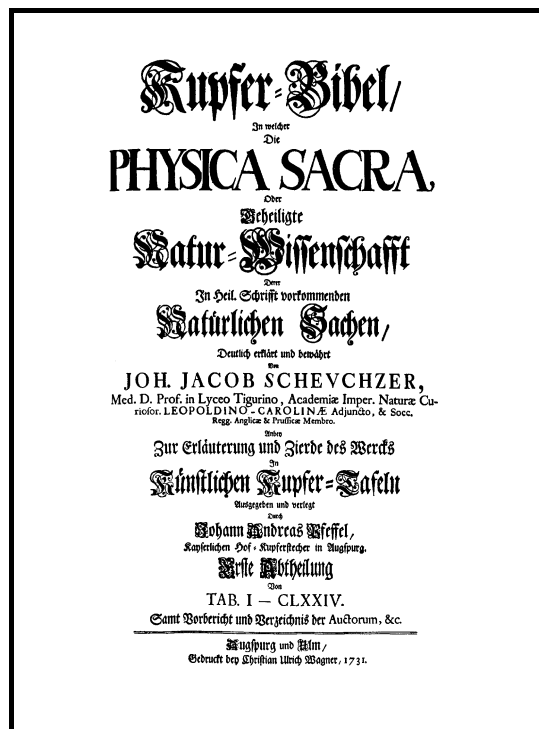
## SCHEUCHZER

Iconibvs æneis illustrata procurante & sumtus suppeditante Johanne Andrea Pfeffel,... Augustae Vindelicorum & Vlmae, 1731-1735.

4 vols. [VOL 1] 2°: [VOL 2] 2°: [VOL 3] 2°: [VOL 4] 2°:

RARE. Scheuchzer was a Swiss naturalist with a wide breadth of knowledge – for his time. In his day, it was customary to regard the Old Testament as a perfectly accurate description of the history of the earth, and Scheuchzer was certainly a man of his time. In 1725, he examined what he believed was the fossil of a victim of the biblical flood. In 1731, he published a description of the victim in his masterwork: Sacred Physics. Sacred Physics recounted the formation of the earth, the creation of all life and the deluge.

REFERENCES: BL: [Cup.652.a.2.].



KUPFER=BIBEL, 1731

4304. German transl., 1731-5: Kupfer=Bibel/ | In welcher | Die | Physica Sacra, | Oder | Aheiligte | Natur=Wissenschaft | Derer | In Heil. Schrift vorkommenden | Natürlichen Sachen/ | Deutlich erklärt und bewährt | Von | Joh. Jacob Schevcher, | [...3 lines of titles and memberships...] | Anbey | Zur Erläuterung und Zierde des Wercks | In | Künstlichen Kupfer=Tafeln | Ausgegeben und verlegt | Durch | Johann Andreas Pfeffel, | Kayserschen Hof=Kupferstecher in Augspurg. | Erste Abtheilung | Von | Tab. I – CLXXIV. | Samt Vorbericht und Verzeichnis der Auctorum, &c. | [double rule] | Augspurg und Ulm, | Gedruckt bey Christian Ulrich Wagner, 1731.

2°: 4 v. in 3 (4 p.l., a-n, a<sup>2</sup>-m<sup>2</sup>, 1426 p.) 750 plates (part fold.), ports. 4 vols. With full-page engraved frontispiece, 2 full-page mezzotint portraits, 758

further engraved plates (4 double-page, 754 full-page), and a headpiece at the beginning of each volume. The plates coloured by an early hand. PAGE SIZE: 370 x 240 mm.

RARE. First German edition of Scheuchzer's *Physica Sacra*, a scientific commentary on the Bible and an "ouvrage indispensable aux naturalistes" (Brunet) with 758 plates on cosmography, paleontology, zoology, botany, anatomy and other subjects related to natural history by the Swiss physician and scholar Johann J. Scheuchzer, the father of paleontology. The significance of the *Kupfer-Bible* extends beyond history proper, showing the state of oriental and Greek lexicography and of philological methods in the first part of the eighteenth century and providing a select bibliography of recent publications on these subjects.

Facsimile reprint of 20 plates: *Kupfer-Bibel oder Physica Sacra*. 20 Faksimiles von kolorierten Kupferstichen und Originaltexten. Eingeleitet und erläutert von Helmut Presser. Wiesbaden, Kalle Aktiengesellschaft, 1965. 22 Doppelblätter lose in OMappe. Folio. Mappe etwas bestoßen; 1 Blatt der Einleitung mit kleinem Einriss in der oberen Ecke; Druck auf Bütten. (Facsimile, Teilfaksimile)

REFERENCES: BL: [9.g.1-8.]. • DSB: 13, 159. • Nissen (ZBI): no. 3659. • Ward & Carozzi, *Geology Emerging*, 1984: no. 1975.

4305. Dutch transl., 1735: Geestelyke natuurrkunde uitgegeven in de Latynsche taale door den hooggeleerden heere Jan Jacb. Scheuchzer ... ; het gansche werk bestaat in vyftien deelen, waar van elk een verzelt is met vyftig zinryke in 't koper gesneden printbladen, door J. And. Pfeffel ... ; in't Nederduits vertaald; versiert met byschriften in poëzy, door G. Tysens. Tot Amsterdam, By Petrus Schenk, konst- en kaartverkooper ..., 1735-1738.

15 v. (1810 p.) : ill., plans, ports. ; 42 cm. (fol.)

RARE. Translated by ??? from *Physica Sacra* (1731-1735).

REFERENCES: Roller & Goodman, *Catalogue*, 1976: 2, 405.

4306. French transl., 1732-7: Physique sacrée, ou histoire naturelle de la Bible. Traduit du latin de Mr. Jean-Jacques Scheuchzer ... Enrichie de figures en taille-douce, gravees par les soins de Jean-André Pfeffel. Amsterdam, 1732-37.

8 vols. 2°:

RARE. French translation by Johann Andreas Pfeffel and Jacques de Varenne.

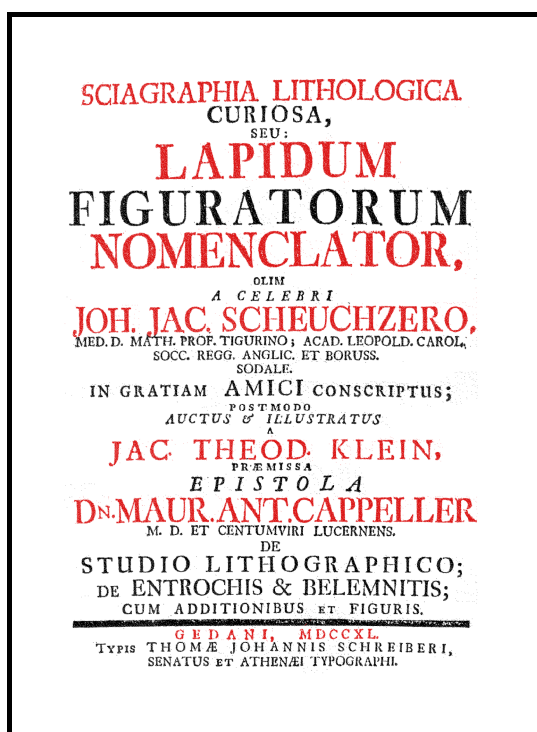
REFERENCES: BL: [459.d.17.].

4307. — Latin, 1740.

[In red:] Sciagraphia Lithologica | [in black:] Curiosa, | Seu: | [in red:] Lapidum | [in black:] Figuratum | [in red:] Nomenclator. | [in black:] Olim | A Celebri | [in red:] Joh. Jac. Scheuchzero, | [...in black, 3 lines of titles and memberships...] | In Gratiam Amici Conscriptus; | Postmodo | Auctus & Illustratus | A | [in red:] Jac. Theod. Klein, | [in black:] Præmissa | Epistola | [in red:] D<sup>n</sup>. Maur. Ant. Cappeller | [in black:] M.D. Et Centumviri Lucernens. | De | Studio Lithographico; | de Entrochis & Belemnitis; | Cum Additionibus et Figuris. | [rule] | [in red:] Gedani, MDCCXL. | [in black:] Typis Thomæ Johannis Schreiberi, | Senatus et Athenæi Typographi.

4°: [A]-I<sup>4</sup> K<sup>3</sup>; 39l.; [1]-77, [1] p., one plate (showing 6 figs.). Title in red and black. PAGE SIZE: 267 x 202 mm.

CONTENTS: [1-2], Title page, verso "Cic. Lib. V. de finib. | ..."; [3-4], Dedication to Joanni. Henrico Heucher.; 5-13, "Præfaminis | loco | Epistola | Excellentissimi



SCIAGRAPHIA LITHOLOGICA CURIOSA, 1740

[ M.A. Cappellerii | Ad | Desideratissimum | J.J. Scheuchzerum. | Anno 1729.]; 14-76, "Nomenclator | Lithologicus."; 77, Errata; [1 pg], Blank.

VERY RARE. Published from manuscript notes seven years after the author's death. "Scheuchzer wrote a useful catalogue of the names which up to his time had been given to 'figured stones', and gave references to some of the published descriptions of them." (Geikie). Written for the benefit of M.A. Cappeller, this catalogue is contained in the first section and contains a description of fossil animals (Cronoids) that are illustrated on the plate. Jacob Theodor Klein's work is on the nomenclature of minerals, rocks and fossils, and contains an alphabetical list with names of minerals and fossils, with scholarly references. Additions made to the original list by Klein have been marked by asterisks, while the German names have been printed in a gothic typeface.

REFERENCES: BL: [B.353.(5.)]. • BMC: p. 1831. • Geikie, *Founders of Geology*, 1905: p. 99-100. • Hoover Collection: no. 720. • LKG: XVII 20b. • NUC: 525, 296-8 [NS 0202661].

#### 4308. — German, 1746 [First edition].

[In red:] Johann Jacob Scheuchzers, | [in black, 3 lines of titles and memberships...] | [in red:] Natur=Geschichte | [in black:] des | [in red:] Schweitzerlandes, | [in black:] Samt seinen | Reisen über die Schweitzerische Gebürge. | Aufs neue herausgegeben und mit einigen Anmerkungen

versehen | Von | Joh. Georg Sulzern. | [rule] | [in red:] Erster Theil. | [in black, vignette] | [double rule] | [in red:] Zürich, bey David Gesner, Gebdr. 1746.

4 parts in one volume. [Part 1] 4°: [16], [1]-486, [2] p. Title in red and black. [Part 2] 4°: [8], [1]-381, [3] p. [Part 3] 4°: [1]-44 p. [Part 4] 4°: [1]-62, [2] p. Three of the title pages have engraved vignettes and 32 double engraved plates by J. Meyer, J. M. Füssli and J. G. Seiller. The *Untersuchung* has a separate titlepage and pagination.

VERY SCARCE. The first part contains the tightened summary of the 1705-07 unsystematical "description of natural history of the Swiss country" appeared in weekly supplies. There now all this messages very disjointed and informal were, then sel. the Joh has. George Sulzer of the scholarly world certainly a large service gethan, selbige to umzuschmelzen and. give change. The notes of the publisher are very good and useful" (Haller). The second part contains the first German expenditure of the 1708 and 1723 first Latin of reports Scheuchzers appeared over its alpine journeys. "Scheuchzer was beside Conrad Gessner and Albrecht of Haller a most important universal scholar, that Switzerland it own calls. It combined a physician, a natural scientist, a mathematician, a paleontologist, a Geodaeten, a geographer, a historian, a Numismatiker, a theologian and a Philologen "(Fueter) in itself. Scheuchzers natural history was trailblazing in the area of regional studies, alpine research and the physical geography of the Swiss high mountains. With its historical data this expenditure beside Tschudis chronicle formed one of the most important sources for Schillers "Tell". On its journeys Scheuchzer made the first barometric levellings in the mountains, examined the glaciers, collected Petrefakten etc.. Under the copper boards are to emphasize the beautiful map Graubuendens of G. Walser, the interior opinion of a cheese factory, the representation of a total solar eclipse, illustrations of minerals and petrifying as well as opinions among other things from bath Pfäfers, Walterswil, pc. God hard etc.. Johann George Sulzers writings in the appendix offer valuable, likewise additions supported by own observations. - easy gebräunt or stick-spotted, the Buendnerkarte of Walser in very good condition. Hs. Owner entry "P. Merian, 1813" on resolution.

REFERENCES: BL: [41.b.19.]. • LKG: XIV 467i.

4309. 2nd edition, 1752: Natur=Historie des Schweizerlandes. Zweyte und verbesserte Auflage. Zürich, bey Heidegger und Comp., 1752.

3 vols. [VOL 1] 8°: [8], 268, [4] p. [VOL 2] 8°: [16], 480, [8] p. [VOL 3] 8°: [16], 336 p. With engraved frontispiece, titles in red and black and 31 engraved views. RARE.

REFERENCES: Fischer, H., *Johann Jakob Scheuchzer: Naturforscher und Arzt*. Zurich: Leeman, 1973. 168 p., illus. [Published as: *Veröffentlichungen der Naturforschenden Gesellschaft in Zurich*, no. 175]: p. 97.

#### Dissertations

4310. — Latin, 1695 [Dissertation].

Epistola de generatione conchitarum. 1695.



8°: RARE.

REFERENCES: LKG: XVII 125.

**4311. Dissertation, 1700:** *Historiae Helveticae naturalis prolegomena ... subjecta praeside Johann Jacobo Scheuchzero...* Tiguri, Typis D. Gessneri, 1700.

4°: [2], 30 p.

RARE. Dissertation — J.R. Lavater, respondent.

REFERENCES: LKG: XIV 458. • NUC: 525, 296-8 [NS 0202633].

**4312. — Latin, 1722** [Dissertation].

Dissertatio de Diluvio. Resp. Johan Gasper Scheuchzer. Præs. J.J. Scheuchzer. Tiguri, 1722.

4°:

RARE. Dissertation — Johan Gasper Scheuchzer, respondent.

REFERENCES: BL: [444.c.20.(11.)]. • LKG: XIII 49.

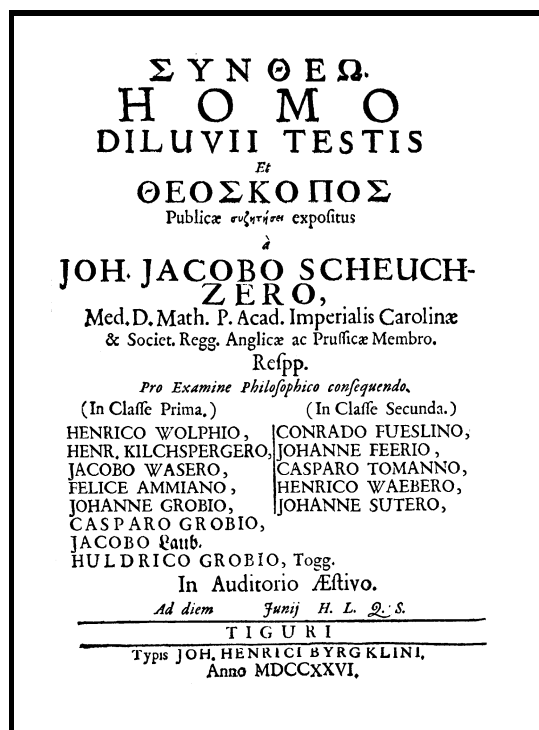
**4313. — Latin, 1724** [Dissertation].

Physicæ sacræ specimen de locustis, etc. : Præs. J.J. Scheuchzer. Tiguri, 1724.

4°:

RARE. Other Authors: Cellarius, Joannes Jacobus.

REFERENCES: BL: [446.b.16.(6.)].



HOMO DILUVII TESTIS, 1726

**4314. Dissertation, 1726:** ΣΥΝΘΕΩ. | Homo | Diluvii Testis | Et | ΘΕΟΣΚΟΠΟΣ | Publicæ [...] expositus | à | Joh. Jacobo Scheuch- | zero, | [...] 3 lines of titles and memberships... | | Pro Examine Philosophico consequendo. | [The next lines in two columns:] (In Classe Prima.) | Henrico Wolphio, | Henr. Kilchspenger, | Jacobo Wasero, | Felice Ammiano, | Johanne Grobio, | Casparo Grobio,

| Jacobo Laub. | Huldrico Grobio, Togg. | [Next column reads:] (In Classe Secunda.) | Conrado Fueslino, | Johanne Feerio, | Casparo Tomanno, | Henrico Waebero, | Johanne Sutero, | [Columns concluded.] In Auditorio Æstivo. | Ad diem Junij H.L.Q.S. | [rule] | Tiguri | [rule] | Typis Joh. Henrici Byrgklini. | Anno MDCCXXVI.

4°: 24 p., one folding plate.

RARE. Dissertation — Heinrich Wolph, respondent.

That was the claim of Johann Jacob Scheuchzer (left), a highly respected Swiss physician and naturalist. In 1725, Scheuchzer uncovered the partial skeleton of a large vertebrate animal in limestone and dubbed the specimen *Homo diluvii testis* "Man, a witness of the Deluge."

"To Scheuchzer, the preserved skull and backbone looked decidedly humanlike and totally different from any fossil he had ever seen," Schopf noted. "There could be only one explanation this must be the remains of a man drowned in the Flood."

Steeped in the Christian tradition, Scheuchzer had a view of Earth's history that was so influenced by the story of Noah that he credited the Great Deluge with forming fossil-bearing rocks. Within a few years of the announcement of his fossil find, Scheuchzer's antediluvian man was hailed by scholars "as irrefutable evidence of the Holy Word."

It took almost a century before the skeleton was correctly identified as a huge fossil salamander.

Kilchspergerus, Henricus.

REFERENCES: BL: [444.c.22.(2.)]. • LKG: XVII 106. • NUC: 525, 296-8 [NS 0202634].

**4315. — Latin, 1735** [Dissertation].

Dissertatio de Tesseris Radensibus. Resp. Oerius etc. Tiguri, 1735.

8°: RARE.

REFERENCES: LKG: XVII 177.

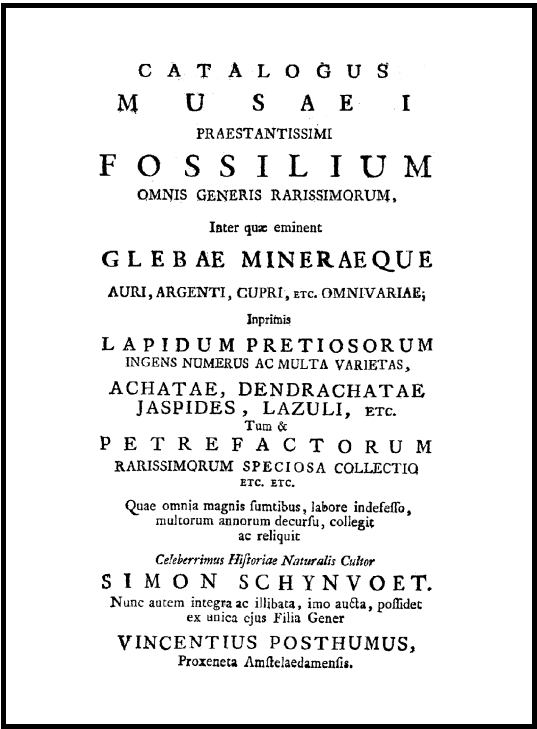
**SCHIJNVOET, Simon.** (BORN: 's-Gravenhage, The Netherlands, 1652; DIED: Amsterdam, The Netherlands, 24 August 1727) *Dutch engraver & garden architect.*

Schijnvoet possessed a rich collections of antiquities, coins and natural history. He edited Rumph's *Rariteitkamer* (1705), obtaining animals from other amateurs to complete the missing pictures. Czar Peter visited his cabinet, and he had connections to the Russian resident Christoffel van Brants. On his death, his cabinet passed to his son-in-law Vincent Posthumus, who offered it for sale in 1744 in two catalogues. The first describes the shells and the second catalogs the fossils, stones and minerals.

REFERENCES: Engel, *Dutch Zoological Cabinets*, 1986: 248. • Thieme & Becker, *Allgemeines Lexikon*, 1907-50: 30, 392.

**4316. — Latin & Dutch, 1744** [Collection catalog].

[Latin title page reads:] Catalogus | Musaei | Praes-  
tantissimi | Fossilium | Omnis Generis Rarissi-  
morum, | Inter quæ eminent | Glebae Miner-  
aeque | Auri, Argenti, Cupri, etc. Omnivaria; |  
Imprimis | Lapidum Pretiosorum | Ingens Nu-  
merus Ac Multa Varietas, | Achatae, Dendrachatae  
| Jaspides, Lazuli, etc. | Tum & Petrefactorum |  
Rarissimorum Speciosa Collectio | Etc. Etc. | Quae  
omnia magnis sumtibus, labore indesesso, | mul-  
torum annorum decursu, collegit | ac reliquit |  
Celeberrimus Historiae Naturalis Cultor | Simon



CATALOGUS MUSAEI PRAEANTISSIMI, 1744

Schynvoet, | Nunc autem integra ac illibata, imo  
aucta, possidet | ex unica ejus Filia Gener | Vin-  
centius Posthumus, | Proxenetā Amstelaedamen-  
sis.

[DUTCH TITLE PAGE READS:]

Naam-Lyst | Van Het Seer Uitmuntend | Kabinet |  
Van Allerhande Soorten Der Raarste | Bergstoffen,  
| Waar onder uitmunten alle Soorten van | Goud,  
Zilver, Koper, enz. Ertsen; En voornamentlyk een  
groot Getal van seer | verschillende | Edele Ges-  
teentens, | Agaaten, Boomsteenē, Jaspis, | Lazuli  
Steenen, enz. | Daarenboven ook | Een Aanzienlyke  
Verzameling Van | Seer Raare | Versteende Zaken,  
| Enz. Enz. | Welke alle met groote kosten en on-  
vermoeiden vlyt, | binnen den tyt van veele jaaren,  
verzamelt | en nagelaaten heeft. | De Seer Ver-  
maarde Beminndar van de Natuur-kunde | Simon  
Schynvoet, | Maar nu in 't geheel en onvermindert,  
ja veel | vermeerderd berusten, | By deszelfs eenige  
nagelatene Dogters Man | Vincent Posthumus, |  
Maakklaar te Amsterdam.

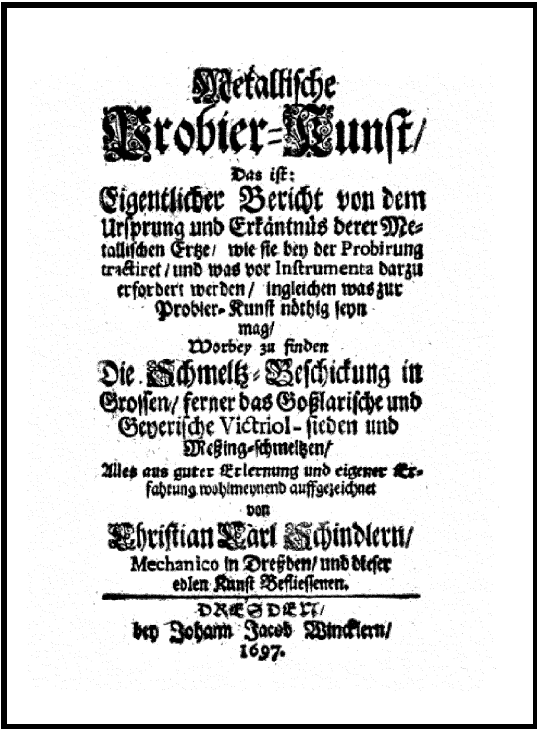
8°: A-D<sup>8</sup> E<sup>4</sup>; 36<sup>l</sup>.; [1]-64, 49-56 p., one folding  
plate (288 x 200 mm.; shows a bust with the petestal  
inscription: "Dit befluyt | 'tgeen d'ingewanden der |  
aarde teelden, de begeer | zugt baarden, en't | alles  
dwingt, ontrvst | of verheugt."). PAGE SIZE: 178 x 108  
mm.

CONTENTS: [1-3], Blanks.; [4], Latin title page.; [5],  
Dutch title page.; [6], Blank.; [Folding plate].; [7]-8,  
"Praemonitum. Voorbericht."; [9]-64, 49-56, Text.

VERY RARE. Schijnvoet's natural history  
collections were inherited after his death by his son-  
in-law, Vincent Posthumus [see note below]. Some  
years later, after adding some material, they were  
put up for auction. The first sale dispersed the  
numerous shells, while a second sale liquidated the  
minerals, fossils and stones. The auction catalog  
described here is the only full account of the items  
contained in the Schijnvoet/Posthumus earth science  
collection. The preface provides some scant historical  
information on the founding and building of the  
collection. The remainder of the text consists of a  
catalog of mineralogical specimens in parallel Latin  
and Dutch columns, separated by a vertical rule. The  
auction began with gold, and moved onto silver, copper  
and iron minerals. This was followed by the precious  
gems, agates, jaspers, lapis lazuli, etc. Finally the sale  
concluded with the fossils. Short descriptions are given  
for each lot.

Vincent Posthumus. (BORN: ; DIED: Amsterdam,  
The Netherlands, (buried) 5 May 1752) Dutch merchant.  
Dutch merchant and broker on the Prinsegracht near  
Vijzelstraat of various goods. Responsible for dispersing  
several Dutch natural history cabinets at auction.

REFERENCES: Engel, Dutch Zoological Cabinets, 1986:  
nos. 1209 & 1389. (Posthumus) Engel, Dutch Zoological  
Cabinets, 1986: no. 1209.



METALLISCHE PROBIER=KUNST, 1697

**SCHINDLER, Christian Carl.****4317. — German, 1697** [First edition].

Metallische | Probier=Kunst/ | Das ist: |  
Eigentlicher Bericht von dem | Ursprung und  
Erkântnûs derer Me= | tallischen Ertze/ wie  
sie bey der Probirung | tractiret/ und was vor  
Instrumenta darzu | erfordert werden/ ingeleichen  
was zur | Probier=Kunst nôthig seyn | mag/ |  
Worbey zu finden | Die Schmelzt=Beschickung in  
| Grossen/ ferner das Goßlarische und | Geyerische  
Victriol-sieden und | Meßing-schmelzen/ | Alles  
aus guter Erlernung und eigener Er= | fahrung  
wohlmeynend auffgezeichnet | von | Christian Carl  
Schindler/ | Mechanico in Dreßden/ und dieser |  
edlen Kunst Befliessen. | [rule] | Dresden/ | bey  
Johann Jacob Wincklern/ | 1697.

8°: [10], 271, [14] p., engraved frontispiece, 5 woodcut illus. Title page in red and black.

RARE. "The author gives a clear description of the assaying methods practised in Freiberg. The procedures are simple and purely practical." (Cole).

REFERENCES: BL: [no copy listed]. • Darmstädter, *Berg-Büchlein*, 1926: p. 102. • Ferchl: p. 478. • VD17: 23:244504Z.

**4318. French transl., 1759:** L'Art | d'Essayer | les Mines | et | les Métaux; | Publié en Allemand par M. Schindlers, & | traduit en François par feu M. Geoffroy, | le fils, de l'Académie Royale des Sciences. | [ornament] | A Paris, | Chez Jean-Thomas Hérisant, | Libraire, rue S. Jacques, à S. Paul | & à S. Hilaire. | [double rule] | MDCCLIX. | Avec Approbation, & Privilège du Roi.

12°: a<sup>8</sup> b<sup>4</sup> A-Y<sup>8/4</sup> Z<sup>8</sup>; 152ℓ.; [i]-xxiv, [1]-278, [2] p.

CONTENTS: [i-ii], Half title page, "L'Art d'Essayer les Mines et les Métaux," verso blank.; [iii-iv], Title page, verso blank.; [v]-viii, "Avis au Lecteur."; [ix]-xix, "Table des Chapitres contenus dans ce Volume."; xx, "Extrait des registres de l'Académie Royale des Sciences."; xxi-xxiii, "Privilege du Roi."; xxiv, "Errata."; [1]-278, Text.; [2 pgs], "Ou trouve chez le même Libraire."

VERY SCARCE. Translation by ÉTIENNE FRANÇOIS GEOFFROY of *Metallische Probier-Kunst* (Dresden, 1697). Over the course of a two year period Geoffroy verified all the tests. However, at his death the manuscript was left unpublished. It was examined by the Royal Academy and published. This rendering in French appears to be much more common than the German original.

REFERENCES: BL: [1568/4671.]. • Cole, *Chemical Literature*, 1988: no. 1179. • Hoover Collection: no. 721. • Roller & Goodman, *Catalogue*, 1976: 2, 406.

**SCHLEYER, August.** (BORN: 25 July 1850; DIED: 17 March 1931) *German naturalist.*

Schleyer was an instructor in agricultural science at the Winter School in Fürth, Bavaria. Besides minerals, he wrote books for the general reader on botany, birds and insects. In 1880, he developed an artificial language that he named "Volapük".

REFERENCES: Internet search.

**4319. — German, 1909.**

Mineralogie | von | Dr. A. Schleyer | Vorstand der kgl. landwirtschaftlichen Winterschule. | [ornate rule] | Mit 73 Abbildungen im Text und 30 farbigen

Tafeln. | [ornate rule] | Fürth i. B. | Druck und Verlag von G. Löwensohn.

8°: [1]-71, [1] p., 73 text illus., 30 chromolithographic plates with 170 figures. PAGE SIZE: 230 x 170 mm.

CONTENTS: [1-2], Title page, verso blank.; [3]-4, "Einleitung."; 4-35, "Allgemeiner Teil."; 36-71, "Systematic."; [1 pg], Blank.

RARE. A general introduction to mineralogy providing the standard information, which although undated is listed by several on-line German libraries as having been published in 1909. The work is fully illustrated by 170 chromolithographic figures of described species which are illustrated on the 30 plates scattered throughout the text. This appears to be the first appearance of the chromolithographic plates, which later were rearranged with fewer figures per plate but creating 40 plates in Spencer's *The World's Minerals* (London, 1911) and Artini's *I Minerali* (Milano, 1914).

Reissue, 1935: Published as part of a series, *Das Naturreich in Bildern* (Leipzig, M. Winkler, 1935).

REFERENCES: BL: [no copy listed]. • NUC.

**SCHMEISSER, Johann Gottfried.** (BORN: Andreasberg, Germany, 24 June 1767; DIED: Hamburg, Germany, 5 February 1837) *German apothecary, physician, chemist & mineralogist.*

Schmeisser was born the son of a poor parish rector. At an early age, he was apprenticed to an apothecary in Braunschweig. From this experience, he received a basic foundation in classical physics, chemistry, anatomy, mineralogy and botany that would serve him well later in life. Schmeisser traveled a great deal, including a very extended excursion to London. There he was introduced into the scientific circles by his English friend, Joseph Banks [1743-1820]. This led to his selection as companion and guide to Baron von Voght [1752-1839] on his journey through England and Scotland. When Voght was about to return to Germany, he offered Schmeisser the possibility of setting up his own chemical laboratory for studies in agriculture. Schmeisser accepted and returned to Germany. However, there was a falling out between the two, and no laboratory was established. Subsequently, Schmeisser moved to Helmstadt where he received an M.D. from the University. Later he settled in Alton, establishing a successful apothecary shop. Throughout the remainder of his life, Schmeisser continued to travel extensively, most notably to the Scandinavian countries. Schmeisser was elected a Fellow of the Royal Societies of London and Edinburgh.

REFERENCES: ADB: 31, 633. • DBA: I 1112, 212-224; II 1157, 42-43. • *Deutsche Apotheker Biographie*: 2, ?? • Hamberger & Meusel, *Gelehrte Deutschland*, 1796-1834. • Poggendorff: 2, col. 811. • Sarjeant, *Geologists*, 1980: 3, 2062-3. • Wahl, *Naturforschung im alten Hamburg*, 1928: 66-8. • WBI.

**4320. — English, 1794.**

Syllabus | Of | Lectures | On | Mineralogy. | [double rule] | By | G. Schmeisser. | [double rule] | London: | Printed For The Author. | [tapered rule] | M.DCC.XCIV.

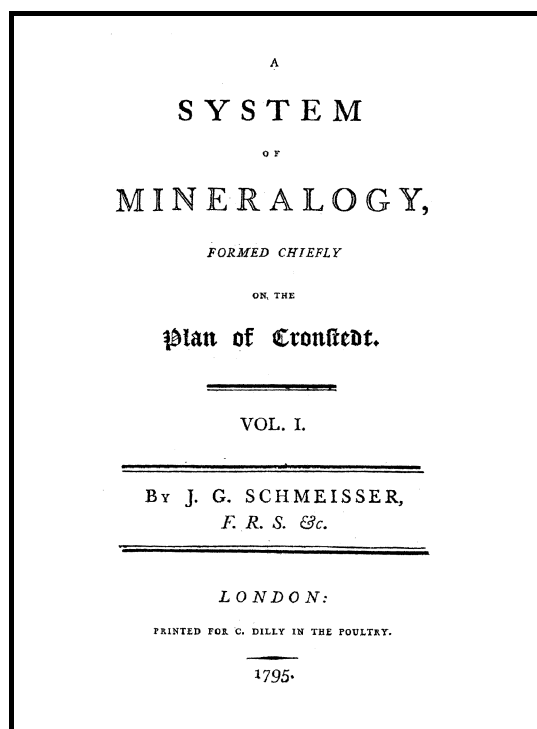
8°: [i]-vii, [1], [1]-148 p. Usually, copies are interleaved with blank pages upon which students would write their own manuscript notes.

CONTENTS: [i-ii], Title page, verso blank.; [iii]-vii, "Advertisement."—dated 3 February 1794.; [1 pg], Blank;

[1]-148, Text.

VERY RARE. During the author's travels to London, he was sponsored by the Linnean Society to give a series of public lectures on mineralogy and chemistry. The guide to these lectures is the present work. Topics covered include an explanation of mineralogy, a history of the science, recounting principally the systems of classifications, and the use of chemistry in mineralogy.

REFERENCES: BL: [B.548.(4.)]. • LKG: XII 139. • NUC: 527, 29 [NS 0228269]. • Wahl, *Naturforschung im alten Hamburg*, 1928: 64-5.



SYSTEM OF MINERALOGY, 1795

#### 4321. — English, 1795.

A | System | Of | Mineralogy, | Formed Chiefly | On The | Plan of Cronstedt. | [double rule] Vol. I. [-II.] | [double rule] By J.G. Schmeisser, | F.R.S. &c. | [double rule] London: | Printed for C. Dilly in the Poultry. | [tapered rule] 1795.

2 vols. [VOL 1] 8°:  $\pi^8 \chi^1 b^8 c^4 B-Z^8$ ; 197 $\ell$ .; [i]-xvi, [2], xvii-xxxviii, [2], [i]-xix, [1], 21-344 p. [VOL 2] 8°:  $1a^6 2a^8 B-Z^8 2A^8 2B^2$ ; 200 $\ell$ .; [i]-xi, [1], [i]-xvi, 1-374 p., 4 plates (numbered Tab.I-IV). Some bibliographies date the first volume as 1794. However, no copy bearing this date has been examined. PAGE SIZE: 205 x 115 mm.

CONTENTS: [VOL . 1] [i-ii], Blanks.; [iii-iv], Title page, verso blank.; [v]-vi, Dedication to Charles Grenville and Joseph Banks.; vii-xv, "Preface."; [xvi], Blank.; [2 pgs], "Errata." verso blank.; xvii-xxxviii, "Table, | Exhibiting The | Systematical Arrangement | Of The |

Contents | Of The First Volume."; [2 pgs], Blanks.; [i]-xix, "Introduction."; [20], Blank.; 21-344, Text.;

[VOL . 2] [i-ii], Title page, verso blank.; iii-xi, "Preface."; [xii], Blank.; [i]-xvi, "Index | To The | Contents | Of The | Two Volumes."; 1-277, Text.; 278-288, "Reflections | On The Examination | And Manner Of Describing | Minerals."; 289-332, "Essay, | Of A | Method For Examining Minerals, | ..."; 333-351, "Of | Analysis | Of | Mineral Substances | In General."; 352-354, "Example | Of The | Analysis Of An Ore."; 355-359, "Explanation | Of | Table I."; 360-374, "Explanation | Of The | Different Apparatus, | Exhibited Upon | The Different Annexed Plates, | Tab. II, III, IV, | As may be required for examining and analy- | sing Mineral Substances."; [At end], 4 plates.

PLATES: At the end of volume two there are four unsigned, engraved plates, numbered Tab. I-IV. Tab. I shows a contact goniometer and 42 figures of crystals. Tab. II picture 22 figures of vessels and distillation apparatus, while Tab. III & Tab. IV show several furnaces and their components.

VERY SCARCE. A *System of Mineralogy* is a derivative work written to provide the student with a good and accurate text. It relies principally upon the theories of AXEL FREDRICH CRONSTEDT to develop a portrait of the science, and includes a great amount of practical advice on the chemical analysis and description of minerals. Schmeisser dedicates the work to his great friends, Charles Grenville and Joseph Banks, who both sponsored him for membership in the Royal Society of London. The preface acknowledges the author's debt to WALLERIUS, CRONSTEDT, BERGMAN and DELAMÉTHÉRIE for the chemical analyses, to Urban Friedrich Benedict Brückmann [1723-1812] for the description of the gems, to ROMÉ DE L'ISLE for the crystallography and to WERNER and D.L.G. KARSTEN for the descriptions of the external characters. However, Schmeisser emphasises that this work is original in its presentation. The preface continues by introducing Werner's concept of external characters with the addition of some rules of chemistry so as to acquaint the reader with the methods used to examine and analysis minerals. Schmeisser also mentions that he intends to publish a supplement to this work that will classify minerals according to his system of his own invention. This supplement never appeared, however.

A brief introduction describes differences between homogenous and heterogeneous substances and the purpose of analytic analysis with an example. Included is a table listing the quantities of substances that dissolve in sulphuric, nitric and muriatic acids. The introduction concludes with a sketch of the history of mineralogy. Next come tables comparing the external characters and another describing mineral forms. A long descriptive mineralogy dividing the individuals into Classes, Genera, Species and Varieties is then presented. A typical description includes the mineral's name, references to other literature and discussions of the physical qualities, the reaction with various acids and the behavior before the blowpipe. Following the descriptive mineralogy is a philosophical discussion centering on how minerals should be described and examined. Practical instructions for

## SCHMIDEL

describing minerals and descriptions of laboratory techniques follow.

REFERENCES: BL. • BMC: 4, 1843 [date their copy, 1794–5]. • Cole, *Chemical Literature*, 1988: no. 1182. • Dana's 7th (Bibliography): 80. • Ferchl: 480. • *Freilich Sale Catalog*: no. 479. • Hoover Collection: no. 726. • LKG: XII 140a. • NUC: 527, 29 [NS 0228270]. • Sinkankas, *Gemology Bibliography*, 1993: no. 5816. • Ward & Carozzi, *Geology Emerging*, 1984: no. 1978.

**SCHMIDEL, Casimir Christoph.** (BORN: Bayreuth, Germany, 21 November 1718; DIED: Ansbach, Germany, 18 December 1792) *German physician.*

Schmidel was the first son of Georg Cornelius Schmidel, a Brandenburg financial councillor and physician ordinary to the margrave in Bayreuth. In 1728, after the death of his parents, Schmidel first moved to Arnstadt and then in 1733 to Gera. In 1735, he began medical studies at the University of Jena and continued them the following year at Halle. He returned to Jena in 1739, receiving his M.D. in 1742 for the work, *Dissertatio inauguralis de exulceratione pericardii et cordis exemplo illustrata* (Jena, 1742??).

After completion of his studies, Schmidel won an appointment as professor of pharmacology at the newly opened Friedrichs-Akademie. Simultaneously, he opened a medical practice in Bayreuth. In 1744, when the academy was moved to Erlangen, he accepted the second professorship of medicine at its new quarters. There he lectured on physiology, anatomy, surgery, pathology and forensics. But disagreements with his university colleagues caused Schmidel to resign his position. In 1763 he traveled to Ansbach to serve as physician ordinary to Margrave Carl Alexander. In recognition of his services to the sovereign, Schmidel was appointed a privy councillor and head of the board of health. In 1750 he was elected a member of the Kaiserliche Akademie der Naturforscher in Halle, and on 16 July 1783, Schmidel was awarded an honorary M.D. at the University of Erlangen. Mental disorders plagued Schmidel the last years of his life.

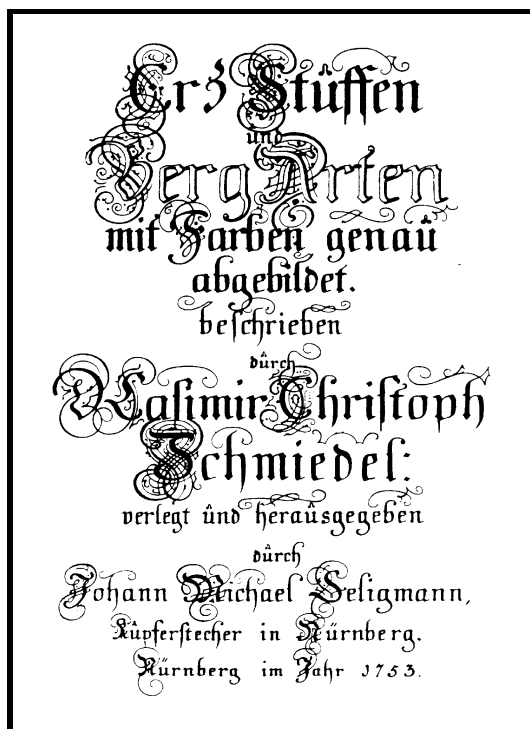
REFERENCES: ADB: 31, 700. • DBA: I 1122, 16–111; II 1159, 315–316. • DSB: 12, 185–86 [by A. Geus]. • *Gelehrtes Fürstenthum Baireuth., Nürnberg*: 7 (1804), 112–27 [by G.W.A. Fickenscher]. • Lambrecht & Quenstedt, *Catalogus*, 1938: 384. • Leydig, F., “Kasimir Christoph Schmidel, Naturforscher und Arzt 1716–1792,” *Abhandlungen der Naturhistorischen Gesellschaft zu Nürnberg*, 15 (1905), 325–55. • Poggendorff: 2, cols. 813–4. • WBI. • Wohnhaas, T., “Miscellanea anatomica zu Kasimir Christoph Schmidel,” *Sitzungsberichte der Physikalisch-medizinischen Sozietät in Erlangen*, 82 (1963), 27–32.

### 4322. — Latin & German, 1753–71?.

[Engraved German title page:] Erz Stufen | und | Berg Arten | mit Farben genau | abgebildet. | beschreiben | durch | Kasimir Christoph | Schmiedel: | Verlegt und herausgegeben | durch | Johann Michael Seligmann, | Kupferstecher in Nürnberg. | Nürnberg im Jahr 1753.

[ANOTHER TITLE PAGE:]

[Engraved Latin title page:] Fossilivm | Metalla | Et | Res Metallicas | Concernentivm | Glebae | Svis Coloribvs Expressae | Qvas | Descripsit Et Digessit | D.Casimirvs Christophorvs | Schmiedel | Impensis | Iohannis Michaelis Seligmanni | Chalcographi Norimbergensis. | Norimbergae MDCCLIII.



ERZ STUFFEN UND BERG ARTEN, 1753

4°:  $\pi^2$  A-O<sup>2</sup> <sup>2</sup>A-<sup>2</sup>O<sup>2</sup>; 58l.; [4], 56, 56 p., 46 hand-colored engraved plates. Both sets of pages 41–44 are misprinted as 41, 44, 43, and 42.

CONTENTS: [2 pgs], Engraved Latin title page, verso blank.; [2 pgs], Engraved German title page, verso blank.; 1–56, German text.; 1–56, Latin text.; [At end], 46 hand-colored plates.

VERY SCARCE. The objective of this volume was to accurately portray minerals of economic importance in their “exact” colors, so that miners and prospectors could use it as a handbook and a guide to locate valuable ores. The noted engraver Johann Michael Seligmann [see note below] was responsible for the majority of the fine copper plates which show various specimens of copper, lead, zinc, silver and gold ores. The text, written in both Latin and German, meticulously describes the physical properties and modes of occurrence of the figured specimens, thus anticipating the importance of external characteristics in mineralogy. The specimens shown on the plates are unfortunately not fine crystallized specimens, but typical examples of valuable ores; therefore, one will be disappointed if too much is expected of the illustrations as mineral specimen depictions. They are, however, well executed pictures of ores samples.

The *Berliner Sammlungen* review notice of *Fossilium Metalla et res Metallicas* indicates that sections containing 3 plates were to be issued every 2 months. Probably due to an insufficient number of subscribers however, the flow of new descriptions and plates became erratic, and with only twenty-eight

plates distributed, eventually halted in 1765, although by this time, Schmidel's book was highly admired and much used as a practical tool. Yet, no new descriptions or plates appeared until after 1771. At this point, new sections were published until a total of forty-two plates were issued, then apparently publication again ceased, for copies with 42 plates are considered complete in the standard bibliographic references. Nevertheless, a very few copies exist with descriptions and four additional plates, thereby totaling 46 plates. Since the added plates do not identify their engraver or year of creation, it is assumed they were issued at some later time, and therefore not included in many copies.

The signiature collation of the leaves clearly shows that the text was published in such a way that the book could be sold in separate German and Latin volumes as well as the configuration described here with the German and Latin combined into a single volume. Since most copies of this work appear to be the combination text, it can probably be assumed that both sets of text were sent to subscribers, and it was the subscribers who made the final determination as to what should be bound or not.

**Johann Michael Seligmann.** (BORN: Nürnberg, Germany, 12 October 1720; DIED: Nürnberg, Germany, 25 December 1762) *German illustrator/engraver.* Seligmann received his training in both drawing and copper engraving at the Nürnberg Malerakademie. He became an associate of Johann Georg Ebersberger [1695-1760] and Johann Justin Preißlers [1698-1771]. Seligmann created illustrations for many religious, scientific and natural history works.

REFERENCES: *Berlinische Sammlungen*: 3, 550-51. • Boehmer, *Bibliotheca Historiae Naturalis*, 1785-9: 1, 59 [The note indicates the work was issued in 28 parts each with 3 plates between 1753 and 1765. As explained above this is, however, not the case.]. • Cobres, *Deliciae Cobresianae*, 1782: 2, 685 ["Schätzbar"]. • *Freilich Sale Catalog*: no. 480 [21 plates]. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 250. • *Göttingische gelehrte Anzeigen*: (1757), 424 & 1374. • Hoover Collection: no. 728 [46 plates]. • LKG: XII 38. • NUC: 527, 184-5 [NS 0231679 & NS 0231680]. • *Vogels Medical Bibliographie*: 2, 663. (Seligmann) ADB: 33, 679-80. • DBA: I 1174, 266-274. • Hirsching, *Historisch-literarisches Handbuch*, 1794-1815. • Thieme & Becker, *Allgemeines Lexikon*, 1907-50: 30, 477. • WBI. • Will, *Nürnbergisches Gelehrten-Lexicon*, 1755-1808.

#### 4323. — Latin, 1794.

D. Casimiri Christophori Schmidel ... Descriptio itineris per Helvetiam, Galliam et Germaniae partem anno CIOIOCCCLXXIII et CIOIOCCCLXX-III institviti, mineralogici, botanici et historici argvmenti. Erlangæ: Svmtv J.J. Palmii, 1794.

8°: [12], [3]-102 p., 2 folding hand-colored plates (figuring algae and seaweed.).

VERY SCARCE. Edited by JOHANN CHRISTIAN DANIEL SCHREBER. In 1773 and 1774 Schmidel accompanied the ailing daughter of Margrave Freidrich of Bayreuth on a journey to Lausanne, where she consulted Simone-André Tissot [1728-1797], and then on to Dieppe, in Normandy. Schmidel's descriptive account of the natural history of the regions they traveled through was edited by Schreber and published as this work. Although the work mostly describes

botanical wonders, several short passages relate to mining and minerals.

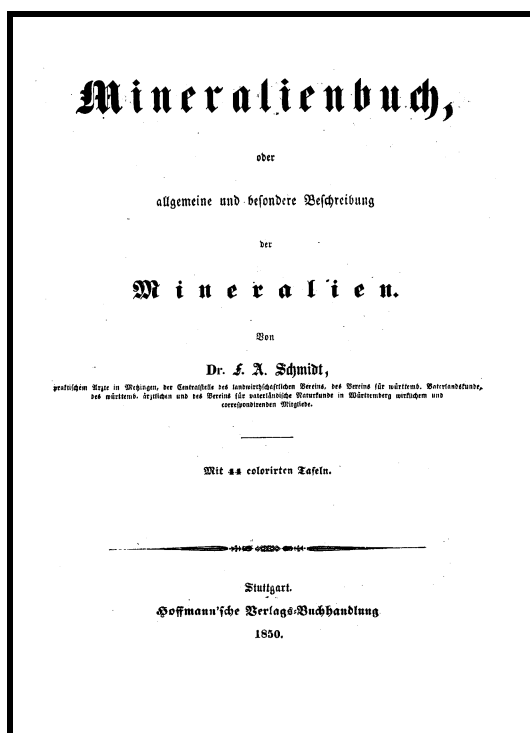
REFERENCES: LKG: XIV 503. • NUC: 527, 183 [NS 0231657]. • Stafleu & Cowan, *Taxonomic Literature*, 1976-88: 10.860.

#### SCHMIDT, F.A. *German physician.*

Schmidt is a elusive personality about whom surprising little is known. His full name was Friedrich Wilhelm Christian Schmidt, and he used "F.A. Schmidt" as a pen name. According to Schenkenberg (1842), he had a medical practice in Metzingen (Messingen) in Württemberg. He is also listed later by Gistel (1856) as a physician and a "Petrefaktenkenner" or someone knowledgeable about fossils in Metzingen. Schmidt was a member of the Society of Naturalists in Württemberg (Vereins für vaterländische Naturkunde in Württemberg). Besides minerals, he authored other works on fossils, including *Die wichtigsten Fundorte der Petrefakten Württembergs* (Stuttgart, 1838). Mayer (1976) is the source for his dates.

Although not seen, there might be further information on Schmidt in M. Rauther, "100 Jahre Verein für vaterländische Naturkunde in Württemberg," *Jahreshefte des Vereins für vaterländische Naturkunde in Württemberg*, Jg. 97-101 (1949), p. vii-xxii. [History of the society from 1844 to 1944.]

REFERENCES: Cleavelly, *World Palæontological Collections*, 1983: p. 259. • Gistel, *Die Naturforscher*, 1856: p. 287. • Lambrecht & Quenstedt, *Catalogus*, 1938: p. 385. • Mayer, *Württembergische Paläontologen*, 1976: p. 100-1. • Müller, Friedrich. "Die Geologisch-mineralogischen Sammlungen im Fichtelgebirge." *Der Aufschluss*, 31 (Oktober, 1980), 478-80. [Short article about various Schmidt family member's geological and mineral collections.]. • Schenkenberg, *Die lebenden Mineralogen*, 1842: p. 88.



MINERALIENBUCH, 1850

**4324. — German, 1850** [First edition].

Mineralienbuch, | oder | allgemeine und besondere Beschreibung | der | Mineralien. | Von Dr. F.A. Schmidt, | praktischem Arzte in Meßingen, der Centralstelle des landwirthschaftlichen Vereins, des Vereins für württemb. Vaterlandskunde, | des württemb. ärztlichen und des Vereins für vaterländische Naturkunde in Württemberg wirklichem und | correspondirenden Mitgliede. | [short rule] | Mit 44 colorirten Tafeln. | [ornate rule] | Stuttgart. | Hoffmann'sche Verlags=Buchhandlung | 1850.

4°:  $\pi^2$  1-234; 94ℓ.; [4], [1]-184 p., numerous woodcuts of crystals throughout the text, 44 hand-colored plates. PAGE SIZE: 256 x 200 mm.

CONTENTS: [2 pgs], Title page, verso blank.; [2 pgs], "Vorrede."—signed "Schmidt."; [1]-184, Text.; [At end], 44 hand-colored plates.

PLATES: The plates consist of 44 hand-colored, engraved unsigned plates, numbered I-LXIV, showing various numbered specimens of mineralogical interest. Plates are numbered at their upper right hand corner, and at the bottom of each plate is a description of the specimens shown, with an accompanying numeral to match description to illustration.

I. 1. Bergkrystall. 2. Kalkspathdruse. 3. Moriodruse. 4. Rauchtöpas. 5. Amethyst. II. 1. Fesungsgat. 2. Bandgat. 3. Moccastein. 4. Careol. 5. Chrysoprase. 6. Calcedon. 7. Plasma. III. 1. Blutjaspis. 2. Bandjaspis. 3. Heliotrop. 4. Brauner Japis. 5. Silbergat. IV. 1. Hornstein. 2. Puddingstein. 3. Fulgurit. 4. Ljdischer stein. 5. Kieselschiefer. V. 1. gemeiner Opal. 2. Pechopal. 3. Holzopal. 4. Edelopal. VI. 1. Granat. 2. gelber Granat. 3. Staurolith. 4. Smaragd. 5. gem Beryll. 6. Topaz. VII. 1. Epidote. 2. Pjcnit. 3. Vesuvian. 4. Schörl. VIII. 1. Blätterzeolith. 2. Faserzeolith. 3. Strahlzeolith. 4. Natrolith. IX. 1&2. Chrysoberyll [=alexanderite, Russia].

X. 1. Axinit. 2. Andalusit. 3. Smirgel. 4. Cjanit [=axinit, analusite, ??, kyanite]. XI. 1. Lapis lazuli. 2. Scapolith mit Granat. 3. Leucit. 4. Hauyn. [=lapis lazuli, scapolite with garnet, leucite and hauyn]. XII. 1. Erdiger Chlorit. 2. Prehnit. 3. Lithionglimmer. 4. Pinit. 5. Harmotom. XIII. 1. Wavellit. 2. Chistolith. 3. Eläolith. 4. Blauspath. XIV. 1a&b. Türkis. 2. Feldspathkrystall. 3. Verglaster Feldspath. 4. Adular. 5. Periklin. 6. Diopsid. XV. 1. Laprador. 2. Olivin. 3. Diallag. 4. Smaragd. XVI. 1. Obsidian. 2. Pechstein. 3. Perlstein. 4. Porzellanjaspis. XVII. 1. Speckstein. 2. Steinmark. 3. Siegelerde. 4. Bolus. 5. Gelberde. 6. Borazit. 7. Nephrit. 8. Spinell. XVIII. Serpentine [4 figures]. XIX. 1. gem Asbest. 2. schillernder Asbest. 3&4. Kalkspath. [=tigereye, ??, calcite].

XX. 1&2. Kalksinter. 3. Erbsenstein. 4. Arragonit. XXI. 1. Tuff. 2. Ruinenmarmor. 3. Gyps. 4. Poljhalit. XXII. 1. Strahlgyps. 2. Schaumgyps. 3. Gypskrystall. 4. Anhydrit. XXIII. Flussspathe [=Flourite; 4 figures]. XXIV. 1. Spargelstein. 2. Apatit. 3. Hornblende. 4. Augit. XXV. 1. Actinolit. 2. Tremolit. 3. Acmit. XXVI. 1. Barjtspath. 2. Fasercolestein. 3. Cöleslinspath. 4. Strontianit [=Strontanite]. XXVII. 1. Anthracit. 2. Braunkohle. 3. Steinkohle. 4. Alaunschiefer. XXVIII. 1. Schwefelanflug. 2. Schwefelerz. 3. Schwefelkrystall. 4 u. 5. Bernstein. 6. Sphen. [=??, ??, ??, amber, sphene]. XXIX. 1. Magnetisen. 2. Rotheisen. 3. Chromeisen. 4. Braunstein.

XXX. 1. Meteoreisen. 2. Spatheisen. 3. Bohnerz. 4. Glaskopf. XXXI. Gangstück. (Spalheisen, Blende u. Quartz.). XXXII. 1. Kupferkies. 2. Kupferlasur. 3. Kupfernickel. 4. Rothkupfererz [=chalcocopyrite, ??, ??,

cuprite]. XXXIII. 1. Malachit. 2. Cerit. 3. Rothgültig Erz. 4. Phosphorsauerer Kupfer. 5. Kupferglanz. XXXIV. 1. Gold. 2. Gedieyen Silber. 3. Fahlerz. 4. Silberglaserz. 5. Amalgam. 6. Zinober. XXXV. 1. Roth. 2. Grün. 3. Weiss. 4. Gelb-Bleierz. [=crocoite, pyromorphite?, cerussite, wulfenite]. XXXVI. 1. Traubenblei. 2. Bleischeelat. 3. Uranpecherz. 4. Zinnspath. XXXVII. 1. Speiskobalt. 2. Kobaltblüthe. 3. Arsenkies. 4. Auripigment u. Realgar. XXXVIII. 1. Gruantimon. 2. Nickelglanz. 3. Moljbdänglanz. 4. Rutil. XXXIX. 1. Galmj. 2. Zinkblende. 3. Manganglanz. 4. Wolfram.

XL. 1, 2 u. 3. Säulen-Baslate. 4. Basalt. 5 u. 6. Congomeramt. XLI. 1. Aelterer- 2. Schrift- 3. Fein. 4. Grobkorniger Granit. XLII. 1. Syenit. 2. Gneiss. 3. Glimmerschiefer. 4. Napoleonit. XLIII. 1. Grunstein. 2. Porphyr. 3. Eklogit. 4. Grunsteinporphyr. XLIV. 1. Mandelstein. 2. Dolerit. 3. Trachyt. 4. Aetna-Lava 1819.

VERY SCARCE. The work begins with an introduction to the physical characters of minerals, including form, hardness, specific gravity, color, phosphorescence, magnetism, electricity, and chemistry of minerals. Following this are standard descriptions of various minerals, some of which are illustrated on the plates. Included among the discussed and rendered species are quartz crystals, agates, beryls, emeralds, and topazes. Each plate shows four or more specimens, and although most species are easily recognized from their portrait, the plate quality is cruder than other comparable works. Yet this work ranks among the finer hand-colored mineralogies published.

REFERENCES: BMC: 4, 1847. • NUC: 527, 311 [NS 0234527].

**4325. 2nd edition, 1855:** Mineralienbuch | oder | allgemeine und besondere Beschreibung | der | Mineralien. | Von | Dr. F.A. Schmidt, | [...3 lines of titles and memberships...] | [short rule] | Mit 44 colorirten Tafeln. | [short rule] | Neue, durch ein Register vermehrte Ausgabe. | [ornate rule] | Stuttgart. | Verlag von Kraus & Hoffmann. | 1855.

4°:  $\pi^2$  1-234 243; 97ℓ.; [4], [1]-190 p., numerous woodcuts of crystals in the text, 44 hand-colored plates. PAGE SIZE: 245 x 190 mm.

CONTENTS: [2 pgs], Title page, verso blank.; [2 pgs], "Vorrede."—signed "Schmidt."; [1]-184, Text.; [185]-190, "Register."; [At end], 44 hand-colored plates.

PLATES: Identical to those issued in the first edition of 1850.

VERY SCARCE. SECOND EDITION. Contains the same text and plates as the original 1850 edition, but with the addition of an index. The lithography of the plates is somewhat improved in this edition with all minerals receiving a full coloring within their outlines.

REFERENCES: NUC: 527, 311 [NS 0234528].

**SCHMIEDER, Karl Christoph.** (BORN: Halle, Germany, 1778; DIED: 1850) *German*.

REFERENCES: ADB. • DBA: I 1122, 174-188; II 1165, 309. • Hamberger & Meusel, *Gelehrte Teutschland*, 1796-1834. • *Neuer Nekrolog der Deutschen*. • Poggendorff: 2, col. 822. • WBI.

**4326. — German, 1797.**

Topographische | Mineralogie | der Gegend | um Halle in Sachsen; | oder | Beschreibung der sich um Halle findenden | Mineralien und Fossilien, | nebst | genauer Anzeige der Orte. | [tapered rule] | Von C.C. Schmieder. | [tapered rule] | Halle, | bei

Johann Christian Hendel. | 1797.

8°:  $\pi^8$  b<sup>3</sup> A-J<sup>8</sup> K<sup>4</sup> L<sup>1</sup>; 88 $\ell$ .; [i]-xxii, [1]-151, [3] p.

CONTENTS: [i-ii], Title page, verso blank.; [iii], Dedication to Benjamin Friedrich Schmieder.; [iv], Blank.; [v]-viii, "Vorrede."; [ix]-xx, "Einleitung | vom | Sammeln und Mineralisiren | überhaupt."; [xxi]-xxii, "Inhalt."; [1]-142, Text.; [143]-144, "Nachricht | von | den vornehmsten Mineraliensammlungen | in Halle."; [145]-149, "Sachregister | zum Nachslagen."; [150]-151, "Kurze Topologie."; [1 pg], "Verbesserungen."; [2 pgs], Publisher's list.

VERY SCARCE. Description of the minerals found around Halle in Saxony together with instructions on how to begin a collection of minerals and rocks.

REFERENCES: BL: [B.250.(2.)]. • BMC: 4, 1850. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 104. • Göttingische gelehrte Anzeigen: Oct., 1797, 1719. • LKG: XIV 183. • NUC: 527, 660 [NS 0242303]. • Roller & Goodman, *Catalogue*, 1976: 2, 409. • Ward & Carozzi, *Geology Emerging*, 1984: no. 1984.

4327. Dissertation, 1799: Veterum | E Mineralogia | Aphorismi, | [ornate rule] | Qvos Consensv | Amplissimi Philosophorum Ordinis | Praeside | Viro Magnifico Illvstri Doctissimo | Ioanne Christophoro Kravse, | [...5 lines of titles...] | Pro Obtinendis Symmis | In Philosophia Honoribvs | Pvblice Defendet | Die Viridivm CIOIOCCIC | Carolvs Christophorvs Schmieder, | [...4 lines of titles and memberships...] | [rule] | Halis Magdebvrgicis, | Typis Mendelianis.

4°: [1]-22 p.

VERY SCARCE. Dissertation – J.C. Krause praeses.

REFERENCES: BL: [T.937.(28.)]. • BMC: 4, 1850. • LKG: II 20. • NUC: [no copy listed].

#### 4328. — German, 1803-4.

Versuch | einer | Lithurgik | oder | ökonomischen Mineralogie | [rule] | von | Carl Schmieder, | Doctor der Philosophie. | [rule] | Erster [-Zweite] Theil. | [tapered rule] | Leipzig, | bei S.L. Crusius. | 1803 [-1804].

2 vols. [VOL 1: 1803] 8°:  $\pi^4$  A-Qq<sup>8</sup> Rr<sup>4</sup>; 324 $\ell$ .; [ii]-viii, [1]-632 p. [VOL 2: 1804] 8°: a-b<sup>8</sup> c<sup>4</sup> A-Rr<sup>8</sup> Ss<sup>4</sup> Tt<sup>8</sup>; 352 $\ell$ .; [i]-xl, [1]-659, [5] p.

CONTENTS: [Vol 1] [i-ii], Title page, verso blank.; [iii-iv], Dedication to Johann Friedrich Wilhelm von Charpentier.; [v]-viii, "Vorrede."; [1], Sectional title page, "Einleitung | in die allgemeine | Lithurgik."; [2], Blank.; [3]-632, Text.

[Vol 2] [i-ii], Title page, verso blank.; [iii]-xxxiv, "Vorrede."; [xxxv]-xl, "Nachschrift, signed D.C. Schmieder.; [1], Sectional title page, "Ueber | die Benutzung | der | parasitischen Fossilien."; [2], Blank.; [3]-646, Text.; [647]-659, "Register über beide Theile."; [1 pg], Errata.; [4 pgs], Publisher's list.

VERY SCARCE. Contents: Volume I. I. Vorbegriffe der Bergkunde (pp. 3-131). II. Vorbegriffe der Hüttenkunde (pp. 132-185). III. Uebersicht der mechanische Lithurgik (pp. 186-202). p. 203, Sectional title page, "Specialler Theil | der | Lithurgik..." 1. Benützung der Urgebirgarten (pp. 205-266). 2. Benützung der Flötzgebirge (pp. 267-415). 3. Benützung der Schuttgebirge (pp. 416-622). 4. Benützung der Brandgebirgarten (pp. 623-632).

Volume II. Ia. Ueber die Benutzung der parasitischen Fossilien (pp. 1-115). Ib. Ueber die Benutzung der parasiten der Flötzgebirge (pp. 116-171).

Ic. Ueber die parasiten der Schuttgebirge (pp. 172-266). Id. Von den Parasiten der Brandgebirge (pp. 267-308). 2. Ueber die Benützungen der uppergang paristen (pp. 309). 2a. Infiltrationsprodukte (pp. 310-410). 2b. Benützung der Gangerze (pp. 411-600). 3. Ueber die Benutzung der Wasser (pp. 601-646).

REFERENCES: BL: [970.g.7.]. • BMC: 4, 1850. • LKG: XVIII 1. • NUC: 527, 660 [NS 0242302]. • Roller & Goodman, *Catalogue*, 1976: 2, 409.

Geologische Beantwortung der Vorrede des zweiten Theils von dem Versuchs einer Lithurgik ... des Herrn ... C. Schmieder ... (Halle, 1805).

See: Luc, Jean André De.

Abhandlung von den Steinarten. Aus dem Griechisch übersetzt und mit Anmerkung begleitet von Carl Schmieder. (Freyberg, 1807).

See: Theophrastus.

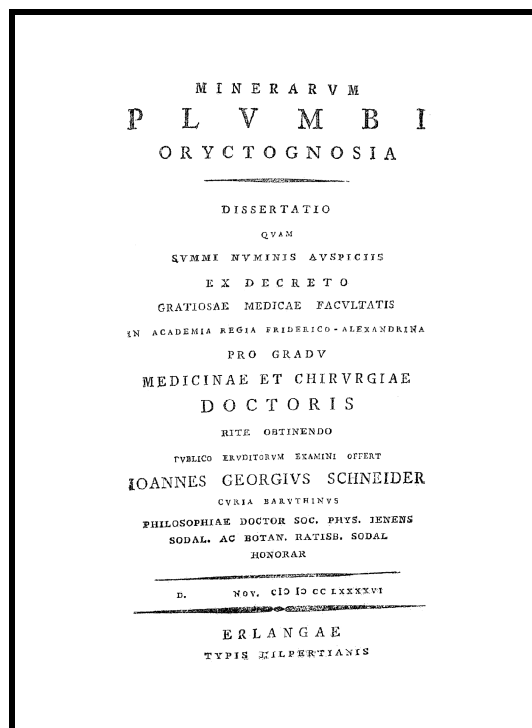
#### SCHMOLCK, Benjamin.

#### 4329. — German, 1736.

Die Wunder-volle Schnee-Koppe, Oder Beschreibung Des Schlesischen Riesen-Gebirges. Aus denen Nachrichten einiger Personen, welche diesen hohen Berg selbst überstiegen haben. Zusammen getragen von einem Bekannten Schlesier. Leipzig, 1736.

8°: 152 p. RARE.

REFERENCES: LKG: XIV 303.



MINERARUM PLUMBI ORYCTOGNOSIA, 1796



## SCHÖNBAUER

**SCHNEIDER, Johann Georg.** (BORN: 1774?; DIED: )  
*German physician & naturalist.*

REFERENCES: DBA: I 1125, 391-395; II 1170, 193. •  
Hamberger & Meusel, *Gelehrte Teutschland*, 1796-1834. •  
Poggendorff: 2, col. ?? . • WBI.

**4330. Dissertation, 1796:** Minerarum | Plvmbi | Oryctognosia  
| [tapered rule] | Dissertatio | Qvam | Svmmi Nvminis  
Avspiciis | Ex Decreto | Gratosae Medicae Facvltatis |  
In Academia Regia Frederico - Alexandrina | Pro Gradv  
| Medicinae Et Chirvrgiae | Doctoris | Rite Obtinendo  
| Pvblico Ervditorvm Examine Offert | Ioannes Georgivs  
Schneider | Cvria Barvthinvs | [...3 lines of titles and  
memberships...] | [tapered rule] | D. Nov. MD CC LXXXVI  
| [ornate rule] | Erlangae | Typis Hilpertianis.

4°:

PLATES: 8°.

VERY SCARCE. Ingural dissertation. Erlangen, Univ.,  
Diss., 1796

REFERENCES: BL: [B.230.(3.)]. • LKG: XVI 171. •  
NUC: [no copy listed].

**4331. — German, 1798** [No more published].

Geschichte der vorzüglichsten Mineralien des  
Fürstenthums Bayreuth von Johann Gottlob  
Schneider ... Theil I. Hof, 1798.

8°: VERY SCARCE.

REFERENCES: BL. • LKG: XIV 118. • NUC: [no copy  
listed].

**SCHÖNBAUER, József Antal.** (BORN: Reichenberg,  
Bohemia, 1756; DIED: Budapest, Hungary, 27  
December 1807) *Bohemian physician, zoologist &  
naturalist.*

Father of Vince [see next entry]. From 1789,  
Schönbauer was professor ordinary of natural history at the  
University of Budapest. Then in 1791 he was promoted  
to professor extraordinary of medicine. He wrote several  
works concerning the natural history of regions in Hungary,  
particularly descriptions of insects and birds.

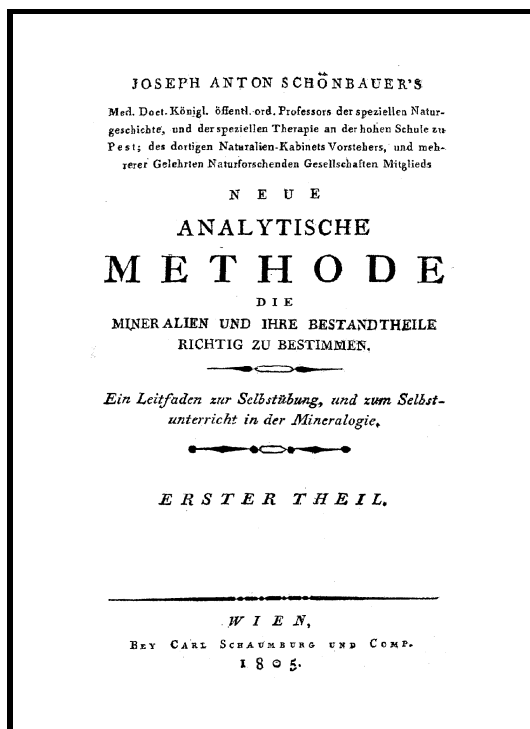
REFERENCES: DBA: I 1130, 35-38; II 1175, 202. •  
Ferchl: 483. • Hamberger & Meusel, *Gelehrte Teutschland*,  
1796-1834. • *Magyar Eletrajzi Lexikon*: 2, 597-8. •  
Poggendorff: 2, col. 829. • WBI. • Wurzbach, *Biographisches  
Lexikon Österreich*, 1856-91.

**4332. — German, 1805-9.**

Joseph Anton Schönbauer's | [...4 lines of titles and  
memberships...] | Neue | Analytische | Methode |  
Die | Mineralien Und Ihre Bestandtheile | Richtig  
Zu Bestimmen. | [ornate rule] | Ein Leitfadens zur  
Selbstübung, und zum Selbst- | unterrichte in der  
Mineralogie. | [ornate rule] | Erster Theil. | [ornate  
rule] | Wein, | Bey Carl Schaumburg und Comp. |  
1805.

2 vols. [VOL 1: 1805] 8°: [56], xl, 331 p. [VOL 2:  
1809] 8°: [46], 418 p.

VERY RARE. After his father's death, Vincent  
Schönbauer edited and completed the second volume.  
This work describes the author's new analytic method  
for the determination and classification of minerals.  
The first volume contains the mineralogical system,  
which is quite complex. The second volume includes:  
1) concise descriptions of the important characters  
found in earthy minerals and their constituents;  
2) a systematic determination of the terrestrial



ANALYTISCHE METHODE, 1805

minerals; 3) a natural system of classification  
for the terrestrial minerals, including information  
about their compositions; 4) mixed minerals, which  
are clearly composed out of single minerals; 5)  
concerns mineralogical apparatus and its use; 6) a  
concise mineralogical terminology. Volume two also  
contains descriptions of mineralogical apparatus, the  
preparation, examination and refining of reagents, and  
a glossary of mineralogical terminology.

REFERENCES: BL: [726.g.16.]. • Jonathan Hill,  
Bookseller: cat. 49, no. 122. • Leonard's *Taschenbuch*: 5,  
327-8. • LKG: XII 223. • Wrany, *Pflege der Mineralogie in  
Böhmen*, 1898: pp. 35 & 38.

**4333. — German, 1809.**

Determinationssystem (der mineralogisch – ein-  
fachen Fossilien). Innsbruck [Austria], bei Wagner,  
1809.

Double folio size table.

VERY RARE. This work, probably printed  
without the knowledge of the author, is a rather  
incomplete extract from his *Neue analytische Methode  
die Mineralien* (1809). In this system the minerals are  
divided into four classes, namely; a) those which possess  
either a metallic luster or streak; b) salts; c) combustible  
minerals and d) those minerals without metallic luster  
or without the characteristics of the former classes and  
which are more or less soluble in mineral acids. These  
last are subdivided according to color, taste, etc. On the  
reverse is printed Werner's mineral system of 1807, to  
which is added the beginning of Andres' classification

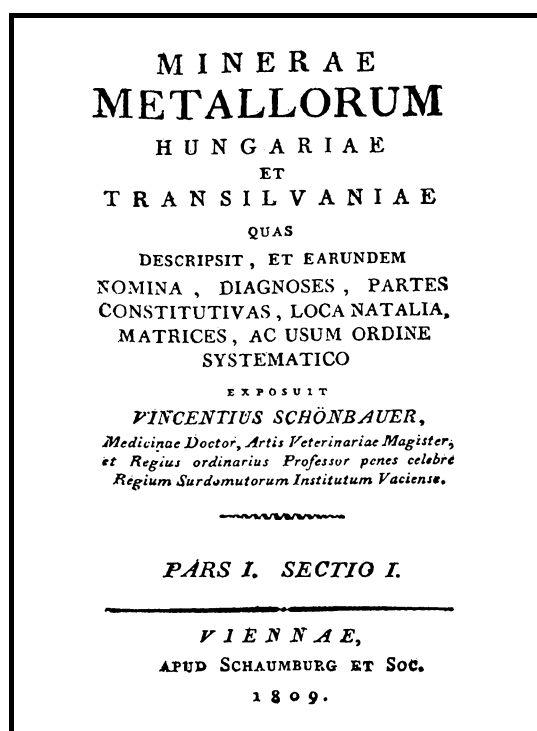
of the common minerals and Blumenbach's system of the rock types.

REFERENCES: Leonard's *Taschenbuch*: 5, 328-9. • LKG: XII 223. • Wrany, *Pflege der Mineralogie in Böhmen*, 1898: pp. 35 & 38.

**SCHÖNBAUER, Vince.** (BORN: Budapest, Hungary, 11 April 1780; DIED: Vác, Hungary, 27 May 1830) *Hungarian physician & naturalist.*

Son of József Antal [see previous entry]. Schönbauer became interested in natural history through his father; however, his lasting contribution was in arranging and figuring the hand signals used by the deaf, which occupied most of his life.

REFERENCES: DBA: I 1130, 39. • Magyar *Életrajzi Lexikon*: 2, 598. • WBI.



MINERAE METALLORUM HUNGARIAE, 1809

**4334. — Latin, 1809-10.**

Minerae | Metallorum | Hungariae | Et | Transylvaniae | Quas | Descripsit Et Earundem | Nomina, Diagnoses, Parts | Constitutivas, Loca Natalia, | Matrices, Ac Usus Ordine | Systematico | Exposuit | Vincentius Schönbauer, | [...3 lines of titles and memberships...] | [ornate rule] | Pars I. Sectio I. [-Pars II.] | [ornate rule] | Viennae, | apud Schaumburg et Soc. | 1809. [-1810.] 2 parts.

VERY RARE. First lexicon of the minerals of Hungary. The descriptions of the 203 minerals are based on the author's extensive travels and the numerous

conversations he had with the miners of the area. The second part provides descriptions of the Salts, Inflammables, Petroleums, Earths and Stones found in the regions of Hungary and Transylvania, together with a description of a new method to facilitate the determination of mineral species in the regions.

REFERENCES: BL: [1255.f.28.]. • LKG: XIV 860 & 861a. • Österreichische Nationalbibliothek, Wien: [Microfiche 641].

**SCHOOLCRAFT, Henry Rowe.** (BORN: Albany County [now Guilderland], New York, U.S.A., 28 March 1793; DIED: Washington, D.C., U.S.A., 10 December 1864) *American geologist & ethnologist.*

Schoolcraft attended Union College and for a time Middlebury College. He became engaged in the family's glass-making business at an early age. However, from 1817 to 1818 he began to explore the mineral regions of southern Missouri and Arkansas. In 1820, he was appointed naturalist to General Lewis Cass' [1782-1866] expedition to the upper Mississippi River and Lake Superior copper country. Schoolcraft then worked as an Indian agent for the tribes around Lake Superior from 1822 to 1841. Later he moved to Washington, D.C. where he worked on compiling comprehensive data on Indian Tribes for the Office of Indian Affairs. Schoolcraft was a member of the New York Lyceum of Natural History and a founding member of the American Ethnological Society in 1842.

Besides his mineralogical writings, Schoolcraft had a lifetime interest in studying American Indian tribes, especially tribes in the Great Lakes region. These ethnological writings are what he is best remembered for today.

REFERENCES: ABA: I 1426, 142-176, 183-186; II 542, 43-45. • DAB: 16, 456-57 [by W. Hough]. • DSB: 12, 203-05 [by E.N. Shor]. • Elliott, *Biographical Index*, 1990: 206. • Elliott, *Biographical Dictionary*, 1979: 228-29. • *Encyclopaedia Britannica*, 11th edition. • Ireland, *Index to Scientists*, 1962. • Lambrecht & Quenstedt, *Catalogus*, 1938: 386-7. • *National Cyclopaedia of American Biography*: 5, ??, • Poggendorff: 2, cols. 836-7 & 3, 1208. • Sarjeant, *Geologists*, 1980: 3, 2070-1. • WBI.

**4335. — English, 1819** [First edition].

A View | Of The | Lead Mines Of Missouri; | Including | Some Observations | On The | Mineralogy, Geology, Geography, | Antiquities, Soil, Climate, Population, | And Productions | Of | Missouri And Arkansas, | And | Other Sections Of The Western Country. | [tapered rule] | Accompanied By Three Engravings | [tapered rule] | By Henry R. Schoolcraft, | Corresponding Member Of The Lyceum Of Natural History Of | New-York. | [ornate rule] | New-York: | Published By Charles Wiley & Co. No. 3 Wall-Street. | J. Seymour, printer. | [ornate rule] | 1819.

4°: 299 [i.e. 297], [1] p., 3 plates. Numbers 273-274 omitted in paging. VERY SCARCE.

Facsimile reprint, 1972: *A view of the lead mines of Missouri*. New York, Arno Press, 1972. 299 p., illus.

REFERENCES: BMC: 4, 1856-57. • NUC. • Sabin, *Dictionary*, 1868-1936: no. 77881. • Shaw & Shoemaker, *American Bibliography*, 1958-83: no. 49372.

**4336. 2nd edition, 1826?** *A View of the Lead Mines of Missouri ...*

4°: ??, VERY SCARCE.

# SCHÖPF

REFERENCES: Sabin, *Dictionary*, 1868-1936: no. ??.

**SCHÖPF, Johann David.** (BORN: Wunsiedel, Germany, 8 March 1752; DIED: Germany, 10 September 1800) *German physician & naturalist.*

Son of a wealthy merchant, Schöpf was educated from 1767 to 1770 at the Gymnasium at Hof. Afterwards he attended the University of Erlangen where he studied medicine and the natural sciences and from which he graduated in 1773. After a year of travel throughout Germany, he returned to Erlangen, receiving his M.D. in 1776. He immediately established a medical practice in Ansbach. This led to his appointment as the chief surgeon for the Ansbach regiment in service of the British army, stationed at New York, Long Island, Rhode Island, and Philadelphia between 1777 and 1783. After his discharge, from 1783 to 1784 Schöpf travelled extensively throughout the middle and southern United States, finally returning to Germany by way of the Bahamas. Once again in Germany, he opened a medical practice in Bayreuth and wrote a number of important works dealing with the natural history of America. For the remainder of his life, Schöpf remained mostly in Germany, with only two short excursions to Italy and Holland. He died in Germany of a disease of the throat.

REFERENCES: ADB: 32, 350-2. • DAB: 16, 457-8 [by G.H. Genzmer]. • DBA: I 1132, 186-222; II 1178, 239-240. • Elliott, *Biographical Index*, 1990: 206. • Elliott, *Biographical Dictionary*, 1979: 229. • Hirsch, *Biographisches Lexikon*, 1884-8: 5, 125-6 [by E. Gurlt]. • Ireland, *Index to Scientists*, 1962: 543. • Lambrecht & Quenstedt, *Catalogus*, 1938: 387. • Lloyd, J.J., "Johann David Schöpf, Hessian traveller," *Earth Science History*, 11 (1992), no. 2, 88-9. • Morrison, A.J., "Dr. Johann David Schöpf," *German American Annals*, 8 (1910), 255-64. • Poggendorff: 2, col. 834. • Sarjeant, *Geologists*, 1980: 3, 2068 & Suppl. 2 (1996), 2, 1060. • Spieker, E.M., "Schöpf, Werner and the earliest work on American geology," *Science*, 172 (1971), 1333-4. • WBI.

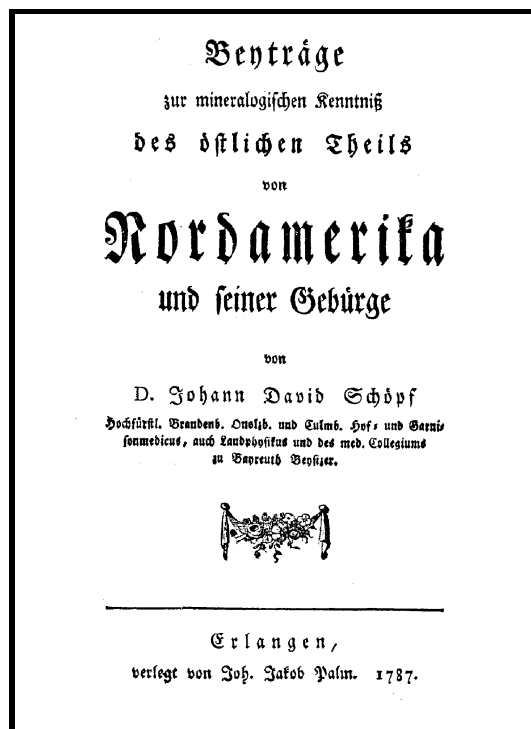
## 4337. — German, 1787.

Beyträge | zur mineralogischen Kenntniß | des  
östlichen Theils | von | Nordamerika | und seiner  
Gebürge | von | D. Johann David Schöpf | [...3  
lines of title and memberships...] | [ornament] | [rule] |  
Erlangen, | verlegt von Joh. Jakob Palm. 1787.

8°: π<sup>6</sup> A-M<sup>8</sup> N<sup>2</sup>; 104ℓ.; [12], [1]-194, [2] p. PAGE  
SIZE: 220 x 130 mm. uncut.

CONTENTS: [2 pgs], Title page, verso blank.; [1 pg],  
Dedication to Hofrath Schreber.; [1 pg], Blank.; [8 pgs],  
Preface, signed D. Schöpf, July 31 [1787?]; [1]-194, Text.;  
[1 pg], "Druckfehler."; [1 pg], Blank.

RARE. This title is among the first consequential  
works on American geology and is superceded only  
by the 1763 Epharta, Pennsylvania edition of BARBA  
in American mineralogy. At the outset of his stay  
in America employed as a mercenary for the British  
army, Schöpf purposely began to record observations  
about the natural history, culture and government of  
the United States, and consequently he became the  
chief German student of American natural history. He  
writes in this work that his intention with regard to  
mineralogy and geology was to compare the American  
earths and stones with their European counterparts  
and describe the similarities and differences between  
the geology of the two lands. He accomplishes this  
in a sometimes brilliant text rooted in first hand  
observation. During his time in the military, Schöpf



BEYTRÄGE, 1787

had accumulated information about much of New York,  
Rhode Island and Pennsylvania, and after his discharge  
he took a long arduous, overland route to visit the  
middle and southern states. Throughout the journey  
he recorded his observations about the flora, fauna  
and mineralogy of the land. The *Beyträge* focuses on  
his observations about the mineralogy and geology of  
the country he passed through. The author was an  
observant naturalist, and all his works on the botany,  
mineralogy, geology and customs of the country were  
among the first accurate scientific views of the new  
nation.

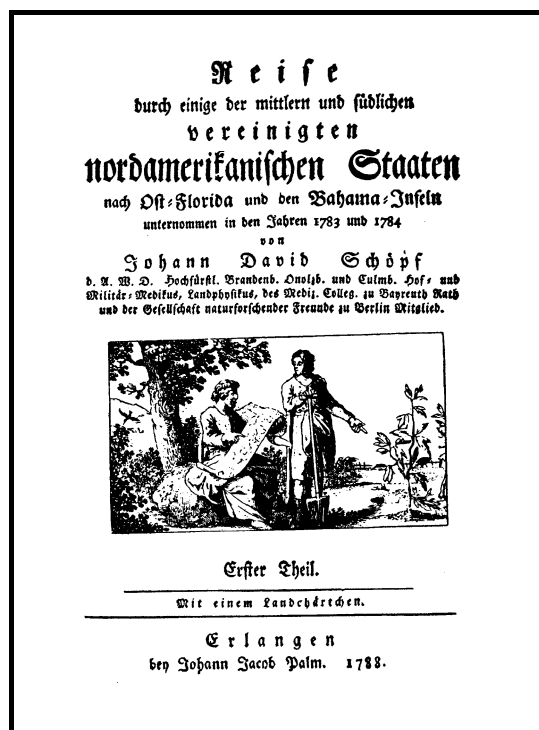
**English translation, 1972:** *Geology of Eastern | North  
America | By | Johann David Schöpf | An annotated  
translation of | Beyträge zur Mineralogischen Kenntniß  
| des Ostlichen Theils von Nord-Amerika | und seiner  
Gebürge, 1787 | By | Edmund M. Spieker | The Ohio  
State University | With a Foreword by | George W. White  
| University of Illinois | [With a Facsimile Reprint of the  
Original German Text] | Hafner Publishing Company |  
New York | 1972. 8°: [i]-x, [1]-171, [15], [1]-194, [2] p.,  
illus., one folding map in back cover pocket.*

[i], Blank.; [ii], "Contributions to the History of  
Geology" [=descriptions of 8 volumes so far published];  
[iii], Series title page, "Contributions | To The | History  
Of Geology | Edited by | George W. White | Research  
Professor of Geology | University of Illinois | Volume  
8."; [iv], "Portrait of Johann David Schöpf."; [v-vi],  
Title page, verso copyright information.; [vii], "Contents."; [viii], Blank.; ix-x, "Editor's Foreword | by | George  
W. White."; 1-32, "Translator's Introduction | by |  
Edmund M. Spieker."; 33-34, "References for Notes."; 35-  
36, "Bibliography of Johann David Schöpf."; [37]-153, Text  
of translation.; [154], Blank.; 155-171, "Index."; [3 pages],

Blank.; [12 pages, (1)–194, (2) p. ], Facsimile reproduction of original text.; [In back cover pocket], Map of Schöpf's route.

Translation by Edmund M. Spieker [see note below] from *Beyträge zur mineralogischen Kenntniss des Östlichen Theils von Nord-Amerika und seiner Gebürge* (Erlangen, 1787), with a foreword by George W. White [see note below]. Published as volume 8 in the series: *Contributions to the History of Geology*. The translator's long introduction provides notes on the *Beyträge*'s historical significance, a biographical sketch of Schöpf, including his educational background, a discussion of Schöpf's other American work, an appraisal of the *Beyträge*, and a short discussion of his itinerary. This is followed by an excellent rendering into English of the original text, which is printed in its entirety afterward.

REFERENCES: BL. • *Freilich Sale Catalog*: no. 482. • LKG: XIV 910. • NUC: 529, 184-6 [NS 0264016]. • Sabin, *Dictionary*, 1868-1936: no. 77754. • Ward & Carozzi, *Geology Emerging*, 1984: no. 1991.



REISE, 1788

**4338. — German, 1788.**

Reise | durch einige der mittlern und südlichen | vereinigten | nordamerikanischen Staaten | nach Ost=Florida und den Bahama=Inseln | unternommen in den Jahren 1783 und 1784 | von | Johann David Schöpf | [...3 lines of titles and memberships...] | [vignette] | Erster [-Zweyte] Theil. | [rule] | Mit einem Landchärtchen. | [rule] | Erlangen | bey Johann Jacob Palm. 1788.

2 vols.

VERY SCARCE. A post-Revolutionary War work recounting the author's travels from New Jersey to the Bahamas. It provides a good overview of the botany of the region together with some mineralogical observations.

**English transl., 1911:** Travels in the Confederation [1783-1784] from the German of Johann David Schöpf, translated and edited by Alfred J. Morrison ... Philadelphia, W.J. Campbell, 1911. 2 vols. [Vol 1] 8°: [I]-VIII, [6], [1]-428 p., frontispiece (portrait of Schöpf), one map (Eastern United States). [Vol 2] 8°: [8], [1]-344 p.

Translation by Alfred James Morrison [1876-1923] of *Reise durch einige der mittlern und südlichen Vereinigten Nordamerikanischen Staaten* (Erlangen, 1788).

REFERENCES: BL. • LKG: XIV 911a. • NUC: 529, 184-6 [NS 0264026].

**SCHRAUF, Albrecht.** (BORN: Vienna, Austria, 14 December 1837; DIED: Vienna, Austria, 29 November 1897) *Austrian mineralogist & crystallographer.*

Schrauf was educated at the University of Vienna by the crystallographer W.J. GRÄILICH. In 1861, Schrauf became the assistant custodian of the Hof-Mineral-Kabinet in Vienna. He moved on to adjunct-custodian, before becoming the custodian in 1867. In 1862, he was appointed professor of physical mineralogy at the University of Vienna. Schrauf authored many papers mostly on mineralogical and crystallographic topics. For the most, they were devoted to three areas of study: (1) the physical and geometrical properties of minerals, (2) the atomic structure of crystals and (3) mineral paragenesis. In his younger days he was closely associated with the Austrian Archduke Stephan, whose fine collection of minerals he studied for the preparation of a catalog (never published?), and to whom his *Atlas der Krystallformen* is dedicated.

REFERENCES: *Almanach der Akademie der Wissenschaften in Wien*: 48 (1898), 322-6. • Barr, *Index to Biographical Fragments*, 1973: 233. • *Bulletin de la Société Française de Minéralogie*: 21 (1898), no. 7, 256-64. • DBA: I 1137, 393-399; II 1183, 98-108. • Knoll, *Österreichische Naturforscher*, 1957: 61-3, portrait [by H. Tertsch]. • *Leopoldina*: 33 (1897), 165-6. • *Mineralogical Magazine*: 12 (1900), 42. • *Nature*: 57 (1897-8), 203-4. • Poggendorff: 2, col. 841, 3, 1210-11 & 4, 1351. • Sarjeant, *Geologists*, 1980: 3, 2073. • Scharizer, R., *Professor Dr. Albrecht Schrauf. Ein biographische Skizze*. Czernowitz, Austria, 1898. 22 p. • WBL. • *Wien, Geologische Verhandlungen*: 1897, 313-4. • Wurzbach, *Biographisches Lexikon Österreich*, 1856-91.

**4339. — German, 1898 [Biography].**

Professor Dr. Albrecht Schrauf. | Eine biographische Skizze | von | Dr. Rudolf Scharizer | o.ö. Universitätsprofessor in Czernowitz. | Czernowitz. | Buchdruckerei Emil Kanarski. | 1898.

8°: [1]-22 p. PAGE SIZE: 184 x 130 mm.

CONTENTS: [1-2], Title page, verso blank.; [3]-22, Text.

VERY RARE. A biography issued after Schrauf's death. Included is a chronological listing of his writings.

**4340. — German, 1864 [Bibliography].**

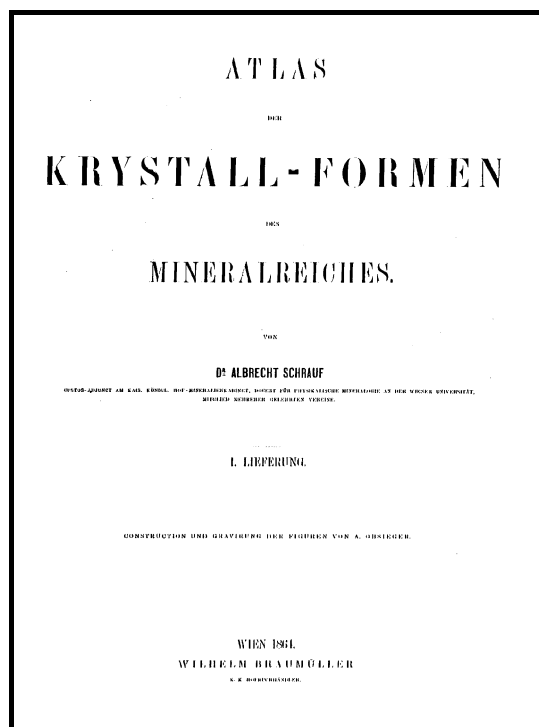
Katalog der Bibliothek des K.K. Hof-Mineralien-Kabinetts in Wien. Zweite vermehrte und umgeänderte Auflage neu geordnet auf Grundlage der weiland Custos Partsch verfassten ersten Auflage. Von Dr. Albrecht Schrauf ... Wien, C. Gerold's Sohn, 1864.

8°: x, [2], 340 p.

## SCHRAUF

VERY SCARCE. An excellent catalog of one of the finest mineralogical libraries in Europe. Enlarged and with a new arrangement from the first edition compiled by PAUL PARTSCH in 1853. It contains 6617 numbered entries and an author index. For other editions, see **Vienna. K.K. Hof-Mineralien-Kabinetts. Bibliothek.**

REFERENCES: BL. • Margerie, *Bibliographies Géologiques*, 1896: no. 811. • NUC: 636, 552. • *USGS Library Catalog*.



ATLAS DER KRYSTALL-FORMEN, 1864

### 4341. — German, 1864-78.

Atlas | Der | Krystall-Formen | Des  
| Mineralreiches. | Von | Dr. Albrecht  
Schrauf | Custos-Adjunct Am Kais. Königl.  
Hof-Mineralkabinet, Docent Für Physikalische  
Mineralogie An Der Wiener Universität, | Mitglied  
Mehrerer Gelehrten Verreine. | [ornate rule] | I. [-  
V.] Lieferung. | Construction Und Gravirung Der  
Figuren Von A. Obsieger. | Wien 1864 [-1878]. |  
Wilhelm Braumüller | K.K. Hofbuchhändler.

4°: [8], [1]-19, [2] p., 50 plates (numbered I-L).  
PAGE SIZE: 362 x 270 mm.

CONTENTS: Lieferung I, 1864: [2 pgs], "Prospectus."—signed Wilhelm Braumüller, August 1864; [2 pgs], Title page, verso blank; [1 pg], Dedication to Kaiser Stephan; [1 pg], Blank; [1 pg], "Vorwort."—signed Dr. A. Schrauf, 1 January 1864; [1 pg], Blank; [1], "Einleitung."; [2], Blank; [3]-6, Text of introduction; [7]-12, "Literatur."; [13]-19, "Tabellen | Zur | Vergleichung der Systematischen Flächenbezeichnung."; [1 pg], Blank; [1 pg], "Atlas."; [1 pg], Blank; Tafel I-X with interspersed decriptive

letterpress.

Lieferung II, 1871: [2 pgs], Title page, verso "C. Ueberruter'sche Buchdruckerei."; Tafel XI-XX with interspersed decriptive letterpress.

Lieferung III, 1872: [2 pgs], Title page, verso blank; Tafel XXI-XXX with interspersed decriptive letterpress.

Lieferung IV, 1873: [2 pgs], Title page, verso blank; Tafel XXXI-XL with interspersed decriptive letterpress. newpar Lieferung V, 1877: [2 pgs], Title page, verso blank; Tafel XLI-L with interspersed decriptive letterpress.

RARE. No more published. An ambitious and rare work, commenced by one of the greatest crystallographers of the time. At the suggestion of WILHELM JOSEPH GRAILICH, Schrauf set his goal to depict every crystalline form known for each mineral species. The species are arranged alphabetically with each plate showing 16 well executed figures of crystals. Each plate is accompanied with a leaf of descriptive letterpress. The text contains crystallographic descriptions of the figures, fundamental dimensions and angles, but without tables relating the inclinations between the various crystal faces. These tables were to be published in a companion volume that never appeared. Many of the figures are by Schrauf himself, and in all cases references are given to the original authority. Due to the tremendous labor, expense and time involved in preparing the plates, only 5 Lieferungen of a projected 20 were ever issued. Each of these contain 10 plates and bears its own title page with dates ranging from 1864 to 1878, when Schrauf abandoned the project. It was not until VICTOR GOLDSCHMIDT published his own *Atlas der Krystallformen* (Heidelberg, 1913-23) that Schrauf's idea was carried through to completion.

REFERENCES: *American Journal of Science*: 3rd Series, 1 (1865), 220. • Dana's 7th (Bibliography): 80. • NUC: 530, 59-60.



LEHRBUCH DER KRYSTALLOGRAPHIE, 1866

### 4342. — German, 1866.

Lehrbuch | Der | Krystallographie |  
Und | Mineral-Morphologie. | [ornate rule] |  
Handbuch | Zum Studium Der Theoretischen

Chemie, Mineralogie | Und Krystallophysik. | Von | Dr. Albrecht Schrauf | [...2 lines of titles and memberships...] | Mit 100 Dem Texte Eingedruckten Holzschnitten. | [rule] | Wien, 1866. | Wilhelm Braumüller | K.K. Hof. Und Universitätsbuchhändler.

[VOLUME TWO TITLE READS:]

Lehrbuch | Der | Angewandten Physik | Der | Krystalle. | Handbuch | Zum Studium Der Theoretischen Chemie, Mineralogie | Und Krystallographie. | Von | Dr. Albrecht Schrauf | [...3 lines of titles and memberships...] | Mit 133 Dem Texte Eingedruckten Holzschnitten. | [rule] | Wien, 1868. | Wilhelm Braumüller | K.K. Hof. Und Universitätsbuchhändler.

[SERIES TITLE PAGE READS:]

Lehrbuch | Der | Physikalischen Mineralogie | Von | Dr. Albrecht Schrauf, | [...2 lines of titles and memberships...] | I. Band. | Lehrbuch Der Krystallographie Und Mineral-Morphologie. | [rule] | Wien, 1866. | Wilhelm Braumüller | K.K. Hof. Und Universitätsbuchhändler.

2 vols. [VOL 1: 1866] 8°: [i]-x, [1]-253, [1] p., 100 illus. [VOL 2: 1868] 8°: [i]-vi, [1]-426 p., 133 illus. PAGE SIZE: 224 x 150 mm.

CONTENTS: [Vol 1] [i-ii], Half title page, "Physikalische Mineralogie," verso series title page.; [iii-iv], Title page, verso blank.; [v], Dedication to Anton Schröter.; [vi], Blank.; [vii-viii], "Vorwort."—signed A. Schrauf, 1 August 1865.; [ix]-x, "Einleitung."; [1], Sectional title page, "I. Abtheilung. | Allgemeine Morphologie."; [2], Blank.; [3]-90, Text.; [91], Sectional title page, "II. Abtheilung. | Theoretische Morphologie."; [92], Blank.; [93]-251, Text.; [252], Blank.; 253, "Inhaltsverzeichnis."; [1 pg], Blank.

[Vol 2] [i-ii], Blank, verso series title page.; [iii-iv], Title page, verso blank.; [v]-vi, "Einleitung."—signed Albrecht Schrauf, 15 September 1867.; [1], "I. Abtheilung. | Die allgemeinen Eigenschaften | der Materie."; [2], Blank.; [3]-70, Text.; [71], "II. Abtheilung. | Die optischen Eigenschaften der | Körper im Allgemeinen."; [72], Blank.; [73]-419, Text.; [420]-422, "Verzeichniss | der im vorliegenden Bande wiederholt gebrauchten Bezeichnungen."; [423]-426, "Inhaltsverzeichnis."

VERY SCARCE. Issued in two volumes in 1866 and 1868 respectively, *Lehrbuch der physikalischen Mineralogie* treats in volume one the descriptive and mathematical crystallography and in volume two the optical, thermal, and other physical properties of minerals or inorganic substances. It was written to supplement the author's *Atlas* of crystalline forms by providing full descriptions of the minerals. Another volume that was to contain tables of the angles and dimensions of crystals of the various mineral species was planned but never published.

REFERENCES: *American Journal of Science*: 3rd series, 1 (1871), 473. • Dana's 7th (Bibliography): 80. • NUC: 530, 59-60 [NS 0276791].

#### 4343. — German, 1867.

Physikalische Studien; die gesetzmässigen Beziehungen von Materie und Licht, mit specieller Be-

rücksichtigung der Molecular-Constitution organischer Reihen und krystallisirter Körper. Wien, C. Gerold's Sohn, 1867.

8°: iv, 249 p., tables.

RARE. Included? in *Lehrbuch der physikalischen Mineralogie* (Wien, 1866-8) [which see entry above]. Concerns the relationship of crystallography and organic chemistry.

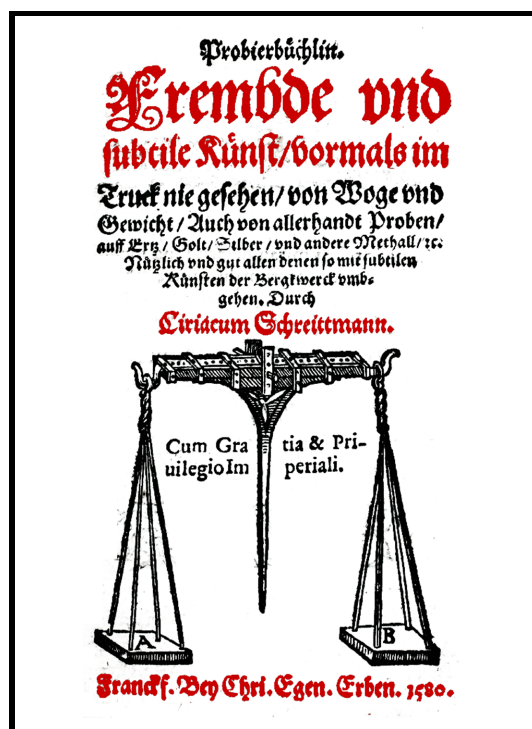
REFERENCES: NUC: 530, 59-60.

#### 4344. — German, 1894.

Über den Einfluß des Bergsgens auf die Entstehung der mineralogischen Wissenschaft im Anfange des 16. Jahrhunderts. Vortrag gehalten in der feierlichen Sitzung der kais. Akademie der Wissenschaften [zu Wien] am 30. Mai 1894. Wien, 1894.

8°: 31 p., plate (portrait of Agricola).

RARE. History of mineralogy in the sixteenth century as viewed from the influence of mining activities.



PROBIERBÜCHLEIN, 1580

#### SCHREITTMANN, Ciriacus.

##### 4345. — German, 1578 [First edition].

Probierbüchlin. Frembde und subtile Künste, vormalis im Truck nie gesehen, von Woge und Gewicht, auch von allerhandt Proben, auff Ertz, Golt, Silber, unnd andere Metall, ... Frankfurt,

## SCHRIFTEN DER HERZOGLICHEN SOCIETÄT

Heirs of C. Egenolff [for A. Lonicerus, J. Cnippius & P. Steinmeyer], 1578.

8°: [8], 86, [2 leaves (last blank)]; 95ℓ. Title page in red & black, woodcuts (one on title page). VERY RARE.

REFERENCES: Wellcome Catalog (Books): 1, no. 5860.

**4346. — German, 1580** [2nd edition].

[In black:] Proberbüchlein. | [in red:] Frembde vnd | subtile Künst/ vormalis im | [in black:] Truck nie gesehen/ von Woge vnd | Gewicht/ Auch von allerhandt Proben/ | auff Ertz/ Golt/ Silber/ vnd andere Methall/ ꝛc. | Nützlich und gut allen denen so mit subtilen | Künsten der Bergwerck umb= | gehen. Durch | [in red:] Cirideum Schreittmann. | [In black, a woodcut of a balance incorporating two lines of text about the fulcrum: Cum Gra tia & Pri uilegio Im periali.] | [in red:] Franckf. Bey Chri. Egen. Erben. 1580.

8°: A-L<sup>8</sup> M7; 95ℓ.; [8]ℓ, 86 numb.ℓ., [1]ℓ.; 95ℓ. Title in red and black with woodcut of a balance and 17 other woodcuts in the text. Ornamental initials and head- and tailpieces. COLOPHON: Getruckt zu Franckfort am Mayn, bey Christian Egenolffs Erben, In verlegung Adami Loniceri, Iohannis Cnippij, Doctor vnd Pauli Steinmeyers, Im jar nach der Geburt Christi vnsers Erlösers. M.D.LXXX.

VERY RARE. Reissue of the 1578 text with a new title page by the same publisher. This rare work describes the dry method of assaying lead, copper, gold and silver ores. The first portion of the book is taken up with a careful description of the building and use of balance and weights, while the later portion treats furnaces, muffles, bellows, and materials, as well as a description of the the actual assay operation.

REFERENCES: Darmstädter, *Berg-Büchlein*, 1926: p. 189. • Ferchl: p. 486. • Ferguson, *Bibliotheca Chemica*, 1906: 2, 341. • Hoover Collection: no. 730. • VD16: S-4156. • Wellcome Catalog (Books): 1, no. 5861.

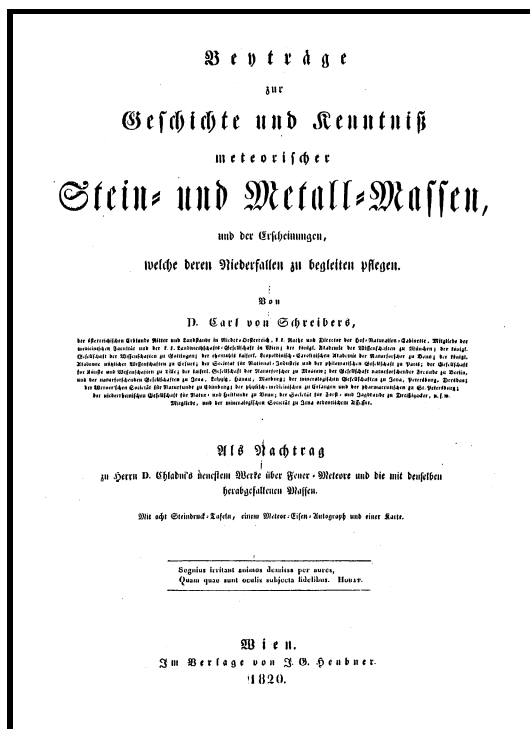
**SCHREIBERS, Karl Franz Anton Ritter von.** (BORN: 1775; DIED: 1852) *German naturalist.*

REFERENCES: DBA: I 1138, 339-353; II 1184, 103. • Hamberger & Meusel, *Gelehrte Teutschland*, 1796-1834. • Neuer Nekrolog der Deutschen. • Poggendorff. • WBI. • Wurzbach, *Biographisches Lexikon Österreich*, 1856-91.

**4347. — German, 1820.**

Beyträge | zur | Geschichte und Kenntniß | meteorischer | Stein= und Metall=Massen, | und der Erscheinungen, | welche deren Niederfallen zu begleiten pflegen. | Als Nachtrag | zu Herrn D. Chladni's neuestem Werke über Feuer=Meteore und die mit denselben | herabgefallenen Massen. | Mit acht Steindruck-Tafeln, einem Meteor-Eisen Autograph und einer Karte. | [rule] | [...2 lines of quotation...] | [rule] | Wien, | Im Verlegt von J.G. Heubner, | 1820.

2°: [ij]-viii, [1]-92 p., 8 lithographed tinted plates



BEYTRÄGE, 1820

of which one double-page and one coloured, 1 nature-printed plate, and 1 lithographed map. PAGE SIZE: 400 x 280 mm.

RARE. The earliest work showing nature-printing of minerals, a process which was later called 'Mineralographie' by Alois Auer. Mr. P. Heilmann an authority on nature printing calls it 'Typennaturselbstdruck' and in an article in the *Österreichische Apotheker-Zeitung* of 1980. Schreibers' slim volume, a landmark first edition of the iconography of meteorites, features nature-printed illustrations, where the "nature" in question is a meteorite (not the customary inked leaf or flower). The lithographic plates number among the earliest products of this method of book illustration; some, borrowing a term from early printing in Europe, call them "incunables of lithography."

REFERENCES: Fischer, E., "Zweihundert Jahre Naturselbstdruck, mit einer Bibliographie," *Gutenberg-Jahrbuch*, 8 (1933), 186-213: no. 22. • Geus, *Natur im Druck*, 1995: no. 22. • Heilmann, *Die Natur als Drucker*, 1982. • Hlawatsch, *Bibliothekskatalog*, 1911: p. 263.

SCHRIFTEN DER HERZOGLICHEN SOCIETÄT.

See: Jena, Germany. Societät Für Die Gesamte Mineralogie.

**SCHRÖTER (Schroeter), Johann Samuel.** (BORN: Rastenberg, Thüringen, Germany, 25 February 1735; DIED: Buttstädt, Germany, 24 March 1808) *German priest & editor.*



SCHRÖTER

Schröter was appointed the first rector in Dornburg in 1756. He then became a priest in Thangelstädt in 1772, followed by an a position as a preacher at Weimar in 1773. In 1785, Schröter was named superintendent of churches in Buttstedt near Weimar. He was instrumental in founding and editing several journals that were the first of their type ever created.

REFERENCES: ADB: 32, 569-70. • *Biographie Universelle*: 41, 246-7. • DBA: I 1142, 192-220; II 1187, 153. • Freyberg, *Geologische Erforschung Thüringens*, 1932: portrait. • Friess, *Johann Samuel Schröter*, 1983. • Friess, H., "Die Sammlungen des gelehrten Superintendents Johann Samuel Schröter (1735-1808). Ihre Entstehung unter dem Gesichtspunkt seiner wirtschaftlichen Verhältnisse und ihr Schicksal," *Medizin-historisches Journal*, 13, (1978), 78-92. • Friess, H., "Die Schröter aus Krauthaus 'hinter dem Ettersberg'," *Mitteldeutsche Familienkunde*, 4 (1975), 513-31. • Lambrecht & Quenstedt, *Catalogus*, 1938: 388-9. • Meusel, *Verstorbenen Deutschen Schriftsteller*, 1802-16: 7, 328-33. • Poggendorff: 2, col. 846. • Tornier, *Gesellschaft Naturforschender*, 1924: 14-5. • WBI.

#### 4348. — German, 1768 [First edition].

Lithographische Beschreibung der Gegenden um Thangelstedt und Rettewitz, in dem Weimarischen. Jena, bei Hartung, 1768.

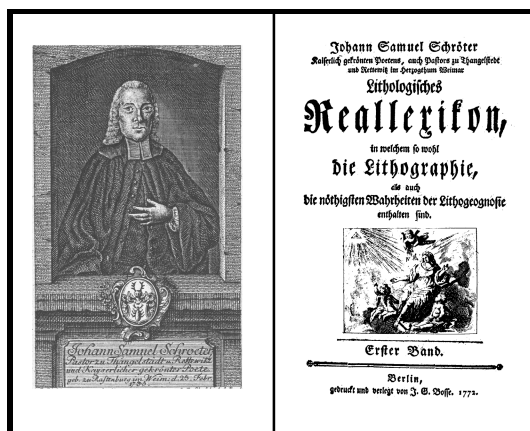
8°: VERY SCARCE.

REFERENCES: BL. • Friess, *Johann Samuel Schröter*, 1983: 92 [no. 1]. • LKG: XIV 236.

**4349. 2nd edition, 1769:** Lithographische Beschreibung der Gegenden um Thangelstedt und Rettewitz, in dem Weimarischen. 2. vermehrte Auflage mit einer Abhandlung über den versteinerten Röhrenknochen. Jena, bei Hartung, 1769.

8°: VERY SCARCE.

REFERENCES: Friess, *Johann Samuel Schröter*, 1983: 92 [no. 1]. • LKG: XIV 236.



LITHOLOGISCHES REALLEXIKON, 1772

#### 4350. — German, 1772-88.

Johann Samuel Schröter | [...2 lines of titles and memberships...] | Lithologisches | Reallexikon, | in welchem so wohl | die Lithographie, | als auch | die nöthigsten Wahrheiten der Lithogeognosie | enthalten sind. | [vignette] | [rule] | Erster [-Achter] Band. | [ornate rule] | Berlin, | gedruckt und verlegt von J.G. Bosse. 1772.

8 vols. [VOL 1: 1772] 8°: A7 b6 2A8 B-Cc8 Dd1; 223ℓ.; [i]-xxiv, [2], [1]-420 p., frontispiece (portrait of Schröter by J.G. Schenck and C.B. Glassbach). [VOL 2: 1779] 8°: )<sup>(4</sup> A-Cc8 Dd4; 216ℓ.; [8], [1]-424 p. [VOL 3: 1780] 8°: )<sup>(2</sup> A-Cc8 Dd6 Ee4; 220ℓ.; [4], [1]-436 p. [VOL 4: 1781] 8°: π<sup>2</sup> A-Z8; 186ℓ.; [4], [1]-368 p. [VOL 5: 1782] 8°: π<sup>2</sup> A-Aa8 Bb6; 200ℓ.; [4], [1]-396 p. [VOL 6: 1784] 8°: π<sup>1</sup> A-Aa8; 192ℓ.; [2], [1]-381, [1] p. [VOL 7: 1785] 8°: π<sup>1</sup> A-Bb8 χ<sup>1</sup>; 202ℓ.; [2], [1]-401, [1] p. [VOL 8: 1788] 8°: π<sup>1</sup> A-Dd8 Ee3; 219ℓ.; [2], [1]-435, [1] p. PAGE SIZE: 200 x 124 mm.

CONTENTS: [Vol 1] [Frontispiece].; [i-ii], Title page, verso blank.; [iii]-viii, Dedication to Annen Amalien, signed Johann Samuel Schröter, 12 May 1772.; [ix]-xxiv, "Vorrede."; [2 pgs], "Pränumeranten."; [1]-420, Text (=A to D).

[Vol 2] [2 pgs], Title page, verso blank.; [6 pgs], "Vorrede," signed Johann Samuel Schröter, 20 September 1779.; [1]-424, Text (=E to H).

[Vol 3] [2 pgs], Title page, verso blank.; [2 pgs], "Vorrede."; [1]-436, Text (=I to L).

[Vol 4] [2 pgs], Title page, verso blank.; [2 pgs], "Vorrede," signed Johann Samuel Schröter, 12 April 1781.; [1]-368, Text (=M to O).

[Vol 5] [2 pgs], Title page, verso blank.; [2 pgs], "Vorrede," signed Johann Samuel Schröter.; [1]-396, Text (=Oo to Ra).

[Vol 6] [2 pgs], Title page, verso blank.; [1]-381, Text (=Re to Se).; [1 pg], Blank.

[Vol 7] [2 pgs], Title page, verso blank.; [1]-401, Text (=Si to Top).; [1 pg], Blank.

[Vol 8] [2 pgs], Title page, verso blank.; [1]-431, Text (=Top to Zw).; [1 pg], Blank.

RARE. The text of the first volume was reissued in 1779 under the title, "Lithologisches Real- und Verballexikon, in welchem nicht nur die Synonymien der



## SCHRÖTER

deutschen, lateinischen, französischen und holländischen Sprachen angeführt und erläutert, sondern auch alle Steine und Versteinerungen ausführlich beschrieben werden."

REFERENCES: BL. • BMC: 4, 1864. • Friess, *Johann Samuel Schröter*, 1983: 93 [no. 5]. • LKG: VIII 6. • NUC: 530, 446-7 [NS 0286156-NS 0286158]. • Partsch, *Katalog der Bibliothek*, 1851: no. 142.

### 4351. — German, 1773-80 [Periodical].

Journal | für die Liebhaber | des | Steinreichs | und der | Konchyliologie | von | Johann Samuel Schröter | [...6 lines of titles and memberships...] | [ornament] | [rule] | Erster Band. | [rule] | Weimar, | bey Carl Ludolf Hoffmann. 1774 [-1780].

6 vols. [VOL 1: 1773] 8°: [14], [4], 124 p.; 332, [18] p. [VOL 2: 1775] 8°: [10], 530, [20] p., 2 leaves of plates. [VOL 3: 1776] 8°: [16], 504, [28] p., 2 folding leaves of plates. [VOL 4: 1777] 8°: [24], 520. [16] p., 2 folding leaves of plates. [VOL 5: 1779] 8°: [16], 581, [11] p., one folding plate. [VOL 6: 1780] 8°: [20], 584, [12] p., 2 folding leaves of plates. RARE.

REFERENCES: BL. • BMC: 4, 1864. • Bolton, *Catalogue of Periodicals*, 1897: no. 2494. • *Freilich Sale Catalog*: no. 484. • Friess, *Johann Samuel Schröter*, 1983: 93-4 [no. 9]. • NUC: [SEE UNDER TITLE!!!!].

### 4352. — German, 1781-2 [Periodical].

Für die | Litteratur und Kenntniß | der | Naturgeschichte | sonderlich | der Conchylien | und | der Steine | [rule] | von | Johann Samuel Schröter. | [...7 lines of titles and memberships...] | [rule] | Mit Kupfern. | [rule] | Erster [-Zweite] Band. | [ornament] | [double rule] | Weimar 1782. | bey Carl Ludolph Hoffmanns sel. | Wittwe und Erben.

2 vols. [VOL 1: 1781] 8°: \*8 A-R<sup>8</sup> S7; 150 $\ell$ .; [14], [1]-278, [8] p. [VOL 2: 1782] 8°: )(4 )(2 A-T<sup>8</sup> X7; 162 $\ell$ .; [12], [1]-314, [8] p., one folding plate (showing bivalves). VERY SCARCE.

CONTENTS: [Vol 1] [2 pgs], Title page, verso blank.; [6 pgs], "Vorrede"—signed Johann Samuel Schröter.; [5 pgs], "Inhalt dieses ersten Bandes."; [2 pgs/=8rv], Blanks.; [1]-278, Text.; [8 pgs], "Register."

[Vol 2] [2 pgs], Title page, verso blank.; [2 pgs], "Vorrede."; [8 pgs], "Inhalt | des zweyten Bandes."; [1]-314, Text.; [8 pgs], "Register."; [At end], One folding plate.

REFERENCES: BL. • BMC: 4, 1864. • Bolton, *Catalogue of Periodicals*, 1897: no. 2494a. • Friess, *Johann Samuel Schröter*, 1983: 94-5 [no. 10]. • LKG: I 10. • NUC: [SEE UNDER TITLE!!!!].

### 4353. — German, 1784-7 [Periodical].

Neue Literatur und Beyträge zur Kenntniß der Naturgeschichte, vorzüglich der Conchylien und Fossilien. Leipzig, bei Müller, 1784-7.

4 vols. [VOL 1: 1784] 8°: [8], [1]-580 p., 3 plates. [VOL 2: 1785] 8°: [8], [1]-632 p., 4 plates. [VOL 3: 1786] 8°: [6], [1]-641 p., 3 plates. [VOL 4: 1787] 8°: [12], [1]-484 p., 3 plates.

RARE. Contains reviews and excerpts from old and recently printed conchological and lithological

writings. An excellent critical bibliography of the period.

REFERENCES: BL. • BMC: 4, 1864. • Bolton, *Catalogue of Periodicals*, 1897: no. 2494b. • Friess, *Johann Samuel Schröter*, 1983: 95 [no. 11]. • LKG: I 11a. • NUC: [listed under the title in the supplemental volumes]. • Petzholdt, *Bibliotheca Bibliographica*, 1866: p. 546.

### 4354. — German, 1774-6.

Beyträge zur Naturgeschichte, sonderlich des Mineralreichs, aus ungedruckten Breifen gelehrte Naturforscher und aufmerksamer Freunde der Natur. Altenburg, In der Richterischen Buchhandlung, 1774-6.

2 vols. [VOL 1: 1774] 8°: [VOL 2: 1776] 8°:

RARE. Published anonymously, but attributed to Schröter. Consists of a series of letters about various aspects of paleontology, conchology and mineralogy.

REFERENCES: BL. • Hoover Collection: no. 732. • LKG: VI 58. • NUC: [CHECK UNDER TITLE!!!!].

### 4355. — German, 1774-84.

Vollständige Einleitung | in die | Kenntniß und Geschichte | der | Steine und Versteinerungen, | von | Johann Samuel Schröter, | [...4 lines of titles and memberships...] | [rule] | Erster Theil. | [ornament] | [double rule] | Altenburg, | in der Richterischen Buchhandlung. | 1774.

4 vols. [VOL 1: 1774] 8°: \*4 a-d<sup>4</sup> A-Ggg<sup>4</sup>; ?? $\ell$ .; [8], [i]-xxxii, [1]-424 p. [VOL 2: 1776] 8°: \*4 a-b<sup>4</sup> c<sup>1</sup> A-Qqq<sup>4</sup> Rrr<sup>3</sup>; ?? $\ell$ .; [8], [i]-xvi (i.e., xviii), [1]-502 p., 3 folding plates (I. Dendrites, II. Conglomerate, and III. Minerals and marble slab hand-colored). [VOL 3: 1778] 8°: a-c<sup>4</sup> d<sup>2</sup> A-Uuu<sup>4</sup>; ?? $\ell$ .; [i]-xxviii, [1]-528 p., 9 folding plates (fossils). [VOL 4: 1784] 8°: a-d<sup>4</sup> e<sup>1</sup> A-Uuu<sup>4</sup> Xxx<sup>3</sup>; ?? $\ell$ .; [i]-xxxiv, [1]-534 p., 10 folding plates (fossils). VERY SCARCE.

CONTENTS: [Vol 1] [2 pgs], Title page, verso blank.; [6 pgs], Dedication, dated 6 June 1774.; [i]-xix, "Vorrede."; [xx]-xxxii, "Kurzer Abriß."; [1]-424, Text.

[Vol 2] [2 pgs], Title page, verso blank.; [6 pgs], Dedication, dated 29 March 1776.; [i]-vi, "Vorrede."; vii-xvi (i.e., xviii), "Kurzer Inhalt dieses Bandes."; [1]-502, Text.; [At end], 3 folding plates.

[Vol 3] [i-ii], Title page, verso blank.; [iii]-viii, Dedication, dated 9 May 1778.; [ix]-xiv, "Vorrede."; xv-xxiv, "Abriß dieses dritten Bandes."; xxv-xxviii, "Ueber die | auf den Kupfer Tafeln gelieferungen Abbildungen."; [1]-528, Text.; [At end], 9 folding plates.

[Vol 4] [i-ii], Title page, verso blank.; [iii]-viii, Dedication.; [ix]-xix, "Vorrede."—dated December 1783.; xx-xxx, "Abriß des Inhalts dieses vierten Bandes."; xxxi-xxxiv, "Ueber die Kupfertafeln."; [1]-534, Text.; [At end], 10 folding plates.

REFERENCES: BL. • BMC: 4, 1864. • Friess, *Johann Samuel Schröter*, 1983: 92 [no. 3]. • LKG: XVII 53 & 54. • NUC: 530, 446-7 [NS 0286167].

### 4356. — German, 1776-7.

Abhandlungen über verschiedene Gegenstände der Naturgeschichte. Halle, 1776-7.

2 vols. [VOL 1: 1776] 8°: 6 plates (3 hand-colored).; [VOL 2: 1777] 8°: VERY SCARCE.

REFERENCES: BL. • BMC: 4, 1864. • Friess, *Johann Samuel Schröter*, 1983: 92-3 [no. 4]. • LKG: VI 59a. • NUC:

530, 446-7 [NS 0286151].

**4357. — German, 1776-7.**

Nachricht von den Fossilien der Grafschaft Oettingen aus den Schriften des Herrn ... Michel gezogen von Johann Samuel Schröter. 1776-7.

2 vols. [VOL 1: 1776] 8°: [VOL 2: 1777] 8°:

VERY SCARCE. Collection catalog???

REFERENCES: BL: • LKG: XIV 317. • NUC: [no copy listed].

Tagebuch einer Reise welches verschiedene mineralogische Beobachtungen besonders über die Agate und den Basalt enthält; nebst einer Beschreibung der Bearbeitung der Agate. Aus dem Französischen übersetzt und mit Anmerkungen begleitet von Johann Samuel Schröter ... (Mannheim, 1777).

See: Collini, Cosimo Alessandro.

**4358. — German, 1789-91** [No more published].

Mineralogisches und bergmännisches Wörterbuch über Namen, Worte und Sachen aus der Mineralogie und Bergwerkskunde. Von Johann Samuel Schröter ... Frankfurt am Main: bei Varrentrapp und Wenner, 1789.

2 vols. in one. 8°:

VERY SCARCE. No more published. Band 1 covers A-Berg. Band 2 covers B-Eisen.

REFERENCES: BL: • LKG: VIII 7a. • NUC: 530, 446-7 [NS 0286159]. • Partsch, *Katalog der Bibliothek*, 1851: no. 141.

**4359. — German, 1789** [Periodical].

Unterhaltungen für Conchylienfreunde und für Sammler der Mineralien. 1. Stücke. Erlangen, bei Walther, 1789.

8°: 160 p., 2 plates.

VERY SCARCE. No more published.

REFERENCES: BL: • Bolton, *Catalogue of Periodicals*, 1897: [title not listed]. • Friess, *Johann Samuel Schröter*, 1983: 95 [no. 12]. • LKG: VI 60b. • NUC: 530, 446-7 [NS 0286165].

**4360. 2nd edition, 1782:** Mvsei Gottwaldiani Testaceorum, Stellarum Marinarum et Coralliorum quae spersunt tabulae. Die Conchylien, Seesterne und Meergewächse der ehemaligen Gottwaldtischen Naturaliensammlung nach den vorhandenen neun und vierzig Kupfertafeln mit einer kurzen Beschreibung begleitet. Nürnberg, Raspe, 1782.

2°: 64 p., 2 engraved portraits (of Christophorus and Johannes Christophorus Gottwald), 49 engraved plates, title vignette.

RARE. A beautifully illustrated work (on shells only). Christophorus Gottwald [see note below] created one of the largest Wunderkammer of his time. His collection was purchased by Tsar Peter the Great together with the famous collections of Seba and Ruysch and these created the nucleus of the St. Petersburg 'Kunstammer.' During his lifetime, Gottwald planned to publish an illustrated catalog of his collection with plates engraved after his own drawings. However, the book was never published, only a few of the plates were distributed by Gottwald's son [see previous entry]. The copper plates were later purchased by the publisher Raspe, who had previously printed works on shells. Schröter was then retained to author a text. So although this work was published at the end of the 18th century the plates were drawn and engraved a century earlier. The portraits are usually lacking from copies of this work.

REFERENCES: BMC: 2, 700.

**SCHULTES, Joseph August.** (BORN: Vienna, Austria, 15 April 1773; DIED: Landshut, Austria, 21 April 1831) *Austrian physician, mineralogist & botanist.*

In 1805, Schultes was professor of zoology, botany and mineralogy at the Theresianum in Vienna. He accepted a post as professor of chemistry and botany at the University of Krakow [Poland] in 1806. From 1808 he was instructor of natural history and chemistry at the University of Innsbruck, Austria. Finally, in 1809 he was appointed professor of natural history and botany at the University of Landshut, as well as one of the medical directors.

REFERENCES: Poggendorff: 2, col. 859.

**4361. — German, 1804.**

Reise auf den Glockner. Von Joseph August Schultes. I. [-IV.] Theil. Wien, J.V. Degen, 1804.

4 Theilen. 4 plates, 1 folding map.

VERY SCARCE. Theil 2 a.u.d.T.: Reise auf den Glockner an Kärnthens, Salzburgs und Tyrols Grenze. Theil 3.4 a.u.d.T.: Reise durch Salzburg und Berchtesgaden, 1.2. Th.

REFERENCES: BL: [979.f.15-18.]. • LKG: XIV 293. • NUC: 531, 363 [NS 0299501].

**4362. — German, 1809.**

Reisen durch Oberösterreich in den Jahren 1794, 1795, 1802, 1803, 1804, und 1808 von Joseph August Schultes. Tübingen: J.G. Cotta, 1809.

2 vols. in one.

VERY SCARCE. Divided into two parts. The first describes the mountains and lakes of Oberösterreich, while the second gives technical statistics of the area.

An interesting description of a journey in the region, illustrated with nice views of the cities visited. The second part, which is completely devoted to the technology especially mining, contains some fine illustrations a.o. of the "Steinkohlen-Bergbau zu Wolfseck," and "Der fahrbare Fraunfall bei Roitham nächst Lambach."

Theil 1 : [Ohne Titel], Mit 1 Karte und 5 Kupfern.

Theil 2 : [Ohne Titel], Mit 15 Kupfern

REFERENCES: BL: [10205.dd.14.]. • LKG: XIV 252 & 253. • NUC: 531, 363 [NS 0299502].

**4363. — German, 1809.**

Mineralogische Tabellen. Nro. I. Werner's Mineralsystem und Schönbauer's Determinationssystem. Nro. II. Uebersicht der äussern Kennzeichen. Innsbruck, 1809.

Broadside.

EXTREMELY RARE. No copy located.

REFERENCES: BL: [no copy listed]. • LKG: XII 179. • NUC: [no copy listed].

**SCHULTZ, Ernst Christoph.** (BORN: Königsberg, Germany, 1740; DIED: Hamburg, Germany, 31 May 1810) *German.*

REFERENCES: Poggendorff: 2, cols. 860-1. • Wahl, *Naturforschung im alten Hamburg*, 1928: 55-56.

**4364. — German, 1770.**

Beschreibung verschiedener Seltenheiten der Natur der Kunst und des Alterhums, welche in dem Moversschen Cabinet zu Hamburg einige Aufmerksamkeit und Betrachtung verdienen, in zween Theilien verfertigt und herausgegeben von einem Freunde der Natur-Historie. Hamburg, Leuckart, 1770.

8°: 214 p., one engraved plate

VERY SCARCE. Description of the Moversschen Cabinet of natural history objects housed in Hamburg, including mineral specimens. An interesting feature of the work is the additional list of 76 other private natural history cabinets that then existed in Hamburg.

REFERENCES: BL. • NUC: [no copy listed]. • Wahl, *Naturforschung im alten Hamburg*, 1928: 55-56 & 76-78.

**4365. — German, 1779.**

Beschreibung | eines | besondern Welt=Auges, | welches in dem Cabinette | eines Natur=Freundes zu Hamburg | befindlich. | [rule] | An Herrn | Ignaz Edlen von Born, | [...2 lines of titles and memberships...] | [ornament] | [rule] | Mit einer ausgemahlten Kupfertafel. | [ornate rule] | Hamburg. | Bey Johann Philipp Christian Reuß.

4°: [1]-27, [1] p., one hand-colored plate.

VERY RARE. Although not stated on the title page, this catalog is the work of Schultz and it was published in 1779/80.

REFERENCES: BL: [729.g.24.(1.)]. • LKG: XVI 365.

**4366. — German, 1780.**

Vom | Regenbogen=Achat, | den | der Verfasser dieses Briefes | zuerst | an die Pariser Academie | in | einer ihrer ordentlichen Versammlungen | des Jahres 1777, | persönlich bekannt gemacht hat. | [rule] | An Herrn | Carl Eugenius Pabst von Oheim, | [...2 lines of titles and memberships...] | [ornament] | [rule] | Mit einer ausgemahlten Kupfer=Tafel. | [ornate rule] | Hamburg. | Bey Johann Philipp Christian Reuß.

4°: 23 p., one hand-colored plate.

VERY RARE. Published anonymously. This treatise on rainbow agate contained in C.E. Pabst von Ohain's mineral cabinet, was according to the title page authored by the same person as *Beschreibung eines besondern Weltauges* (Hamburg, 1780). This author was known to be Schultz.

**Karl Eugen Pabst von Ohain.** (BORN: Freiberg, Germany, 8 April 1718; DIED: Freiberg, Germany, 25 July 1784) *German mining expert*. Pabst von Ohain was director of the Freiberg Bergakademie from its founding in 1769 until his death. In his lifetime he was considered among the most knowledgeable mineralogists in Saxony, having built a collection of over 7,500 specimens. After his death, it was reorganized by WERNER, and sold to the government of Portugal, which shipped it to the University of Rio de Janeiro to be used in teaching mineralogy and geology. Pabst von Ohain was a member of the Leipzig and St. Petersburg Academies.

REFERENCES: BL: [729.g.24.(5.)]. • *Freilich Sale Catalog*: no. 486. • LKG: XVI 184. • Sinkankas, *Gemology Bibliography*, 1993: no. 5892 [not seen]. (Pabst von Ohain) Fischer, *Sächsisches Oberbergamt Freiberg*, 1943 [see page 153]. • Schiffner, C., *Alte Hutten und Hammer in Sachsen*. Bearbeitet von Werner Grabner. Berlin. Akademie-Verlag, [1959]. [1]-313 p., illus., maps, portrait. [Published as: *Freiberger Forschungshefte. D, Kultur und Technik*, no. 14. On the history of foundries in Saxony.]: 3, ??]. • Wilson, *History of Mineral Collecting*, 1994: 95-6 & 186.

**4367. — German, 1818 [Sale catalog].**

Verzeichniss | einer | Mineralien-Sammlung, | welche | Sowohl aus rohen als angeschliffenen | und brillenitirten Stücken bestehet. | [tapered rule] | Mit Sachkenntniss gesammelt | von dem verstorbenen | Doctor Ernst Christoph Schultz. | [tapered rule] | Hamburg 1818. | Gedruckt bei Andreas Peter Wichers.

8°: [1]-139 p.

VERY RARE. Apparently an auction or sale catalog of Schultz' collection after his death.

REFERENCES: BL: [B.383.(6.)]. • *Freiesleben, Sächsische Mineralien-Verzeichnisse*, 1828: no. 73. • NUC: [no copy listed]. • Wilson, *History of Mineral Collecting*, 1994: 228.

**4368. — German, 1820.**

Verzeichnis der Naturalien- und Kunstsachsen des verstorben Herrn Doctor Ernst Christoph Schultz, welche den 25. September 1820 und folgenden Tage in dem Hause hohe Bleichen No. 298 durch den Auctionarius Berndes öffentlichen versteigert werden sollen. Hamburg, 1820.

8°: 106 p.

VERY SCARCE. Auction catalog of Ernst Christoph Schultz's collections, including minerals that occurred on the 25 September 1820.

REFERENCES: BL. • Wahl, *Naturforschung im alten Hamburg*, 1928: 79, no. 449.

**SCHULZE, Erwin.** (BORN: Quedlinburg, Germany, 1 March 1861; DIED: ) *German mineral collector*.

No information found.

REFERENCES: Lambrecht & Quenstedt, *Catalogus*, 1938: 389.

**4369. — German, 1896.**

Lithia Hercynica. Verzeichnis der Minerale des Harzes und seines Vorlandes. Von Erwin Schulze, Ph.D. Leipzig: Veit & Comp., 1896.

8°: xvi, 192 p. "Litteraturverzeichnis": p. [vii]-xi.

VERY SCARCE.

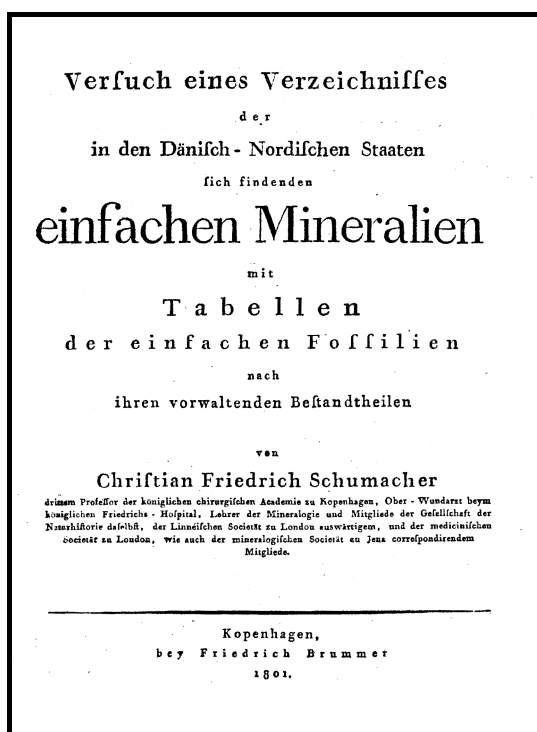
REFERENCES: BL. • Dana's 7th (Bibliography): 80. • NUC: 531, 640 [NS 0305804].

**SCHUMACHER, Heinrich Christian Friedrich.** (BORN: Glückstadt, Schleswig-Holstein, Germany, 15 November 1757; DIED: Copenhagen, Denmark, 9 December 1830) *Danish physician*.

REFERENCES: *Dansk Biografisk Lexikon*: 15, 362-70 [by J. Petersen & E. Røstrup]. • Garboe, *Geologiens Historie i Danmark*, 1959-61: 1, 163-5, portrait. • Herholdt, J.D., *Oratio quam ad Festen Semiseculare Christiani Friedrichi Schumacheri Celebrandum habuit*. Hafniae: 1828: 1828. •



SCHUMACHER



VERSUCH EINES VERZEICHNISSE, 1801

Poggendorff: 2, col. 566. • SBA: Scandinavian Biographical Archive: A-289, 288-309. • WBI.

#### 4370. — German, 1801.

Versuch eines Verzeichnisses | der | in den  
Dänisch-Nordischen Staaten | sich findenden |  
einfachen Mineralien | mit | Tabellen | der  
einfachen Fossilien | nach | ihren vorwaltenden  
Bestandtheilen | von | Christian Friedrich  
Schumacher | [...5 lines of titles and memberships...]

| [tapered rule] | Kopenhagen, | bey Friedrich  
Brummer | 1801.

[SECTIONAL TITLE PAGE:]

Tabellen | der | einfachen Fossilien | nach | ihren  
vorwaltenden Bestandtheilen | geordnet.

8°: \*4 A-X<sup>4</sup> Y<sup>2</sup>; 90ℓ.; [i]-viii, [1]-172 p., tables.

PAGE SIZE: 236 x 200 mm.

CONTENTS: [i-ii], Title page, verso blank.; [iii],  
Dedication to Joseph Bank.; [iv], Blank.; [v]-viii, Preface.;  
[1]-150, Text.; [151], Sectional title page.; 152-172, Tables.

VERY SCARCE. The principle text of the work  
is a descriptive mineralogy based upon a chemical  
classification as developed in TORBERN BERGMAN's  
*Sciagraphia Regni Mineralis* (1782). At the conclusion  
are a series of tables designed to present the mineral  
species according to their chemical properties.

REFERENCES: BL. • LKG: XIV 16. • NUC: 532, 11  
[NS 0307365]. • Ward & Carozzi, *Geology Emerging*, 1984:  
no. 2000.

**SCHÜTTE, Johann Heinrich.** (BORN: Soest,  
Westphalia, Germany, 11 June 1694; DIED: Kleve,  
Westphalia, Germany, 20 January 1774) *German*  
*physician*.

Schütte received his M.D. from Utrecht in 1719,  
after which he was successively appointed city physician at  
Vianen near Utrecht, Kleve, Schwelm and Hamm, all in  
Germany. He eventually returned to Kleve.

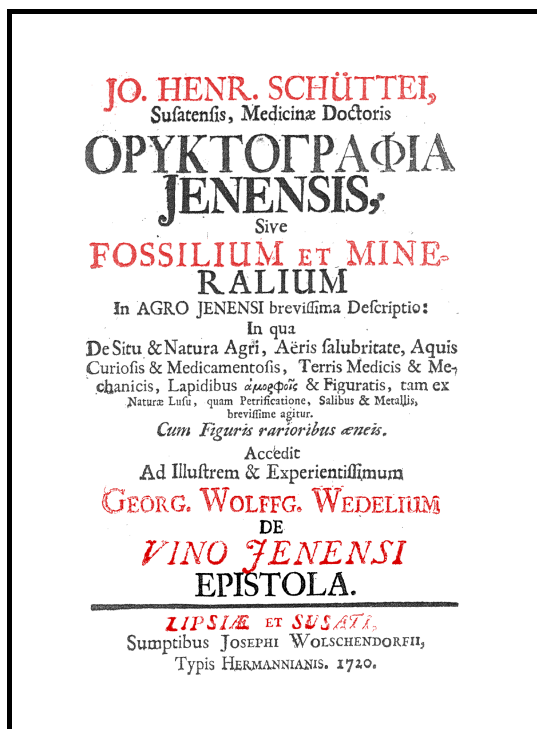
REFERENCES: Börner, *Vornehmsten Lebensumständen*,  
1749-64. • DBA: I 1146, 357-413; II 1191, 161-162.  
• Freyberg, *Geologische Erforschung Thüringens*, 1932.  
• Hirsch, *Biographisches Lexikon*, 1884-8. • Hirsching,  
*Historisch-literarisches Handbuch*, 1794-1815. • Lambrecht &  
Quenstedt, *Catalogus*, 1938: 390. • Meusel, *Verstorbenen*  
*Teutschen Schriftsteller*, 1802-16. • Poggendorff: 2, cols. 855-  
6. • WBI.

#### 4371. — Latin, 1720 [First edition].

[In red:] Jo. Henr. Schüttei, | [in black:] Susatensis,  
Medicæ Doctoris | ΟΡΥΚΤΟΓΡΑΦΙΑ | Jenensis,  
| Sive | [in red:] Fossilium et Mine= | [in black:]  
ralium | In Agro Jenensi brevissima Descriptio: In  
qua | De Situ & Natura Agri, Aëris salubritate,  
Aquis | Curiosis & Medicamentosis, Terris Medicis  
& Me- | chanicis, Lapidibus ανοδοφοιδ& Figuratis,  
tam ex | Naturæ Lusu, quam Petrificatione,  
Salibus & Metallis, | brevissime agitur. | Cum  
Figuris rarioribus æneis. | Accedit | Ad Illustrem  
& Experientissimum | [in red:] Georg. Wolffg.  
Wedelium | [in black:] De | [in red:] Vino Jenensis  
| [in black:] Epistola. | [rule] | [in red:] Lipsiæ [in  
black:] et [in red:] Susati, | [in black:] Sumptibus  
Josephi Wolschendorffii, | Typis Hermannianis.  
1720.

8°: π<sup>7</sup> A-G<sup>8</sup>; 63ℓ.; [14], 1-110, [2] p., engraved  
portrait frontispiece, 2 engraved plates.

CONTENTS: [2 pgs], Title page, verso blank.; [4  
pgs], Dedication to Johann I of Saxony, signed Joh.  
Henr. Schütteus.; [Engraved portrait of Schütte]; [8 pgs],  
"Præfatio | Ad Lectorem."—dated 22 February 1720.; 1-  
100, Text.; [101]-109, Letter to Georg. Wolffg. Wedelium.;



OPYKTOΓPAΦIA JENENSIS, 1720

110, "Index | Scriptorum ..." [=list of references consulted].; [2 pgs], "Index | Rerum Memorabilum."

PLATES: The portait shows the head and upper torso of Schütte in an oval frame from which a curtain has drawn aside. An inscription on the supporting petestal reads: "Jo. Henr. Schütte, | Susatensis, Med. Doctor, | Rerumque Naturalium | Indagator. | Natus MDCXCIV." Two other folding plates occur at page 73. Tab. I shows 2 figures of stones and Tab. II depicts one figure of various fossils in matrix.

RARE. *Oryktographia Jenensis* describes the minerals and fossils found around the city of Jena in eastern Germany. The text is divided into chapters with each describing various mineral and fossil groupings found around the area. Included are fossils and stones shaped like plants and animals, *Lustæ Naturæ* ('sports of nature'), various metallic ores including gold and silver, medicinal waters and earths, figured stones, petrifications, and salts. Appended at the end is a letter from Schütte to Georg Wolfgang Wendel on the subject of the wine of Jena.

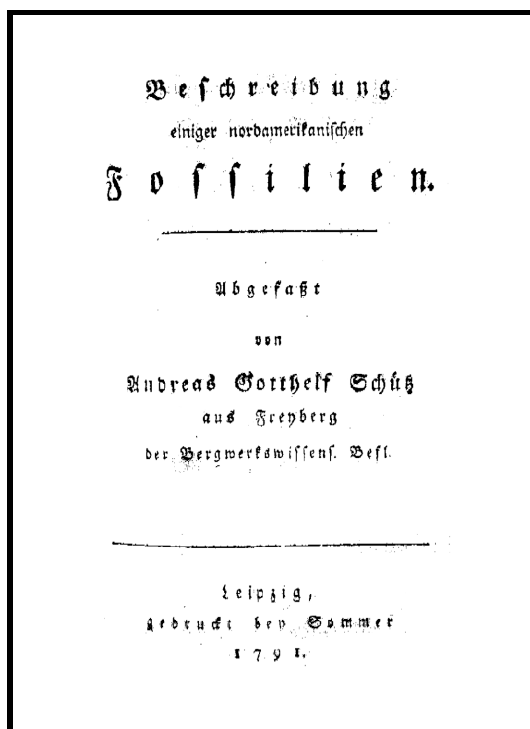
REFERENCES: BL. • BMC: 4, 1867. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 114. • Hoover Collection: no. 733. • *Katalog Bergakademie Freiberg*, 1879: p. 609. • LKG: XIV 227. • NUC: 531, 171 [NS 0295254]. • Schröter's *Journal für die Liebhaber*: 2, 504-5 & 3, 126-32.

4372. 2nd edition, 1761: Io. Henric. Schütte | Svsatensis, Medic. Doctoris | Oryctographia | Ienensis, | Sive | Fossilium Et Mineralium | In | Agro Ienensi | Brevissima Descriptio Etc. | Qvam | Revidit, Nonnulla Praefatvs Est | Adnotationesque | Svbiecit | Christ. Valent. Merkelivs, | [...5 lines of titles and memberships...] | [rule] | Editio Altera Renovata | [ornate rule] | Ienae | Svmtib. Theod. Wilh. Ernest. Güthii | MDCCLXI.

12°: [1]-141 p.

RARE. Revised edition, edited by Christian Valentin Merckel. No plates accompany this edition.

REFERENCES: BL. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 114. • LKG: XIV 227. • NUC: 531, 171 [NS 0295257].



BESCHREIBUNG, 1791

SCHÜTZ, Andreas Gotthelf, Freiherr von. (BORN: Freiberg, Germany, 1771; DIED: 13 February 1807) *German mineral collector?*

"Schichtmeister" in Schneeberg, Germany.

REFERENCES: DBA: I 1147, 21; II 1191, 210. • Hamberger & Meusel, *Gelehrte Teutschland*, 1796-1834. • Poggendorff: 2, col. 856. • WBI.

#### 4373. — German, 1791.

Beschreibung | einiger nordamerikanischen | Fossilien. | [rule] | Abgefaßt | von | Andreas Gotthelf Schütz | aus Freyberg | der Bergwerkswissens. Befl. | [rule] | Leipzig, | gedruckt bey Sommer | 1791.

4°: ?? p.

VERY RARE. Early description of the minerals and fossils found in North America.

Leipzig, Univ., Diss., 1791

REFERENCES: BL: [B.260.(20.)]. • Dana's 7th (Bibliography): 80. • LKG: XIV 914. • NUC: [no copy listed].

**4374. — German, 1797.**

Von den | Vorschritten und dem Nutzen | des  
| Studiums der Mineralogie, | besonders in |  
Rücksicht auf den Bergbau, | in einer | öffentlichen  
Versammlung der churfürstl. bayerischen Akademie  
der | Wissenschaften | an | Ihrem hohen  
Stiftungseyer, | den 28. März | abgelesen |  
von | Freyherrn von Schütz, | [...3 lines of titles  
and memberships...] | [ornament] | [tapered rule]  
| München, bey Joseph Lindauer, Buchhändler,  
1797.

4°: [1]-52 p. VERY SCARCE.

REFERENCES: BL: [T.965.(5.)]. • Hoover Collection:  
no. 734. • LKG: I 20. • NUC: [no copy listed].

**SCHWABE, Johann Friedrich Heinrich.** (BORN:  
Eichelborn, Weimar, Germany, 14 March 1779; DIED:  
Darmstadt, Hesse, Germany, 29 December 1834)  
*German theologian.*

Schwabe studied theology at the University of Jena  
and through lectures on natural history and philosophy,  
he became interested in mineralogy. From 1801–2 he was  
the first Privatdocent at the University of Jena. He was  
then sent to Wormstadt in Thürigen as a parson. He  
remained in that position from 1802–21. In 1821, Schwabe  
was appointed superintendant and the head of the church  
at Neustadt [now in Poland]. In 1833, he moved to Weimar  
where he accepted a post as senior parson.

REFERENCES: ADB: 33, 171-2. • DBA: I 1157, 90-107;  
II 1200, 419. • Hamberger & Meusel, *Gelehrte Deutschland*,  
1796-1834. • *Neuer Nekrolog der Deutschen*. • Poggendorff:  
2, col. 871. • WBI.

**4375. — German, 1801.**

Historische Nachricht | von | der Societät | für |  
die gesammte | Mineralogie | zu Jena. | [ornate  
rule] | Von | Joh. Friedr. Heinr. Schwabe, | [...6 lines  
of titles and memberships...] | [tapered rule] | Jena, |  
bei J.G. Voigt, 1801.

8°:  $\pi^4$  A-C<sup>8</sup> D<sup>4</sup>; 32 $\ell$ .; [8], [1]-56 p. PAGE SIZE:  
210 x 114 mm.

CONTENTS: [2 pgs], Title page, verso blank.; [1 pg],  
Dedication.; [1 pg], Blank.; [4 pgs], "Vorrede."; [1]-56,  
Text.

VERY RARE. This is a detailed history of the  
Societät für die gesammte Mineralogie which was the  
first mineralogical society founded in Jena in 1797.  
Details of the text include membership lists containing  
several hundred members, the by-laws of the Society,  
and descriptions of other activities.

REFERENCES: BL. • BMC: 2, 930. • GV (1700-1910):  
132, 24. • NUC: [no copy listed].

Annalen der Söcietät für die gesamte Mineralogie.  
Herausgegeben von Johann Gottlob Lenz und Johann  
Friedrich Heinrich Schwabe. (Jena & Leipzig, 1802).

[CONTINUED UNDER THE TITLE:]

Schriften der Herzoglichen Societät für die gesammte  
Mineralogie zu Jena. Herausgegeben von Johann Georg  
Lenz. (Jena, 1804-6).

[CONTINUED UNDER THE TITLE:]

Neue Schriften der Grossherzoglich S. Societät für  
die gesammte Mineralogie in Jena. Herausgegeben von  
D. Johann Georg Lenz ... und D. Johann Friedrich Heinrich  
Schwabe. (Neustadt an der Oder, 1806-25).

See: Jena, Germany. Societät Für Die Gesammte Mineralogie.

**4376. — German, 1803 [First edition].**

Einleitung in die Geschichte der Mineralogie. Jena,  
1803.

8°: 60 p. VERY SCARCE.

REFERENCES: BMC: 4, 1874. • GV (1700-1910): 132,  
24. • LKG: I 23. • NUC: [no copy listed].

**4377. — German, 1823.**

Grundzüge | einer | Geschichte der Mineralogie.  
| Entwickelt und nachgewiesen | von | D. Johann  
Friedrich Heinrich Schwabe, | [...8 lines of titles and  
memberships...] | [rule] | Jena, bei J.G. Voigt, 1823.

8°: A-B<sup>8</sup> C<sup>7</sup>; 23 $\ell$ .; [1]-46 p.

CONTENTS: [1-2], Title page, verso blank.; [3],  
Dedication to Johann Georg Lenz.; [4], Blank.; [5]-8,  
"Vorrede."—signed Schwabe, 21 July 1822.; [9]-46, Text.

RARE. This synopsis of the history of  
mineralogy was also published in the *Neue Schriften  
der Grossherzoglich S. Societät für die gesammte  
Mineralogie in Jena*, volume 1 (1806), 1-46.

REFERENCES: BL. • GV (1700-1910): 132, 24. • NUC:  
[no copy listed]. • Poggendorff: 2, col. 871.



HANDBOK I ORYKTOGNOSEN, 1803

**SCHWARTZ, Gustaf Magnus.** (BORN: 1783; DIED:  
1858) *Swedish physicist.*

REFERENCES: *Finsk Biografisk Handbok*: 2, cols. 1939-  
40. • SBA: Scandinavian Biographical Archive: B-288, 420-  
424. • *Svenskt Biografiskt Handlexikon*: 2, ?? . • *Svenskt  
Biografiskt Lexikon*. • WBI.

**4378. — Swedish, 1803** [Part I].

Handbok | I | Oryktognosien; | af | G.M. Schwartz.  
| [vignette] | [rule] | Stockholm, | Tryckt hos Carl  
Delen, 1803.

8°: [6], [1]-72 p., 7 plates, title page vignette of a contact goniometer. PAGE SIZE: 185 x 110 mm.

CONTENTS: [2 pgs], Title page, verso blank.; [1 pg], Dedication.; [1 pg], Blank.; [2 pgs], "Företal."; [1]-72, Text.; [At end], 7 plates.

PLATES: Besides the title page vignette of a contact goniometer, there are 7 other engraved plates. These consist of: (1, 2 figs.) wire silver, (2, 2 figs.) native copper and malachite, (3, 10 figs.) crystal diagrams, (4, 9 figs.) crystal diagrams, (5, 10 figs.) crystal diagrams, (6, 9 figs.) crystal diagrams of twins, and (7, 3 figs) blowpipe and apparatus.

VERY SCARCE. All published? The first portion of what would have been a thorough treatment of oryctognosy, or the physical properties of minerals. This would have been one of the first such treatises published in the Swedish language. Unfortunately, Schwartz died unexpectedly, and the complete work was never carried through.

REFERENCES: LKG: XII 162\*.

**SCHWARZ, Christian Gottlieb.** (BORN: Leisnig, Saxony, Germany, 5 September 1675; DIED: Altdorf, Germany, 24 February 1751) *German philologist & historian.*

REFERENCES: ADB: **33**, p. 227-8. • DBA: I 1159, 18-105; II 1202, 296. • Hirsching, *Historisch-literarisches Handbuch*, 1794-1815. • Jöcher, *Gelehrten-Lexikon*, 1750-51. • Meusel, *Verstorbenen Deutschen Schriftsteller*, 1802-16. • NDB: 7, p. 681. • WBI. • Will, *Nürnbergisches Gelehrten-Lexicon*, 1755-1808.

**4379. — Latin, 1750.**

Untersuchungen vom Meere die auf Veranlassung einer Schrift, De columnis Herculis, welche der hochberühmte Professor in Altorf, Herr Christ. Gottl. Schwarz. Franckft ; Leipzig, 1750.

8°: lxxvi, [14], 432 [i.e. 424], [44] p.

VERY SCARCE. Other author, Johann Siegmund Valentin Popowitsch [1705-1774].

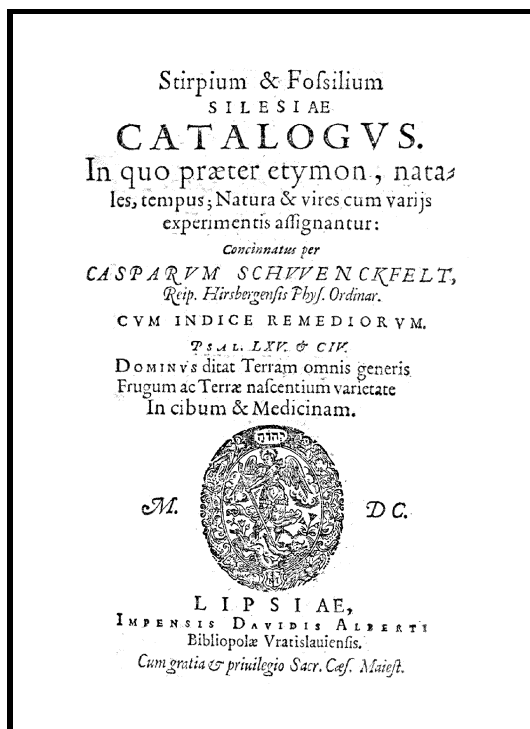
Occasioned by the work of Christian Gottlieb Schwarz, *De columnis Herculis*. The authors intense interest in philological matters is apparent in the introduction & variously in the text; the appended missive to five Leipzig scholars is devoted entirely to this subject; includes brief remarks on contemporary Austrian poets.

REFERENCES: LKG: XIII 71.

**SCHWENCKFELDT, Caspar.** (BORN: Greiffenberg, Silesia, Germany, 14 August 1563; DIED: Görlitz, Germany [now Goritz, Italy], 9 June 1609) *German physician.*

Schwenckfeld graduated with an M.D. from the University of Basel. He opened a practice in Hirschberg, and then in 1605, he retired to Görlitz.

REFERENCES: ADB. • DBA: I 1164, 92-112. • *Encyclopaedia Britannica*, 11th edition. • Ferchl: 493. • Jöcher, *Gelehrten-Lexikon*, 1750-51: 4, col. 413. • Lambrecht & Quenstedt, *Catalogus*, 1938: 391. • Poggendorff: 2, cols.



STIRPIUM & FOSSILIVM SILESIAE CATALOGVS, 1600

877-8. • Pritzel, *Thesaurus Literaturæ Botanicae*, 1871-3: 292. • WBI.

**4380. — Latin, 1600.**

Stirpium & Fossilium | Silesiae | Catalogvs. | In  
quo præter etymon, nata= | les, tempus; Natura  
& vires cum varijs | experimentis assignantur:  
| Concinnatus per | Casparv Schwenckfeldt, |  
Reip. Hirsbergensis Phys. Ordinar. | Cvm Indice  
Remediorvm. | Psal. LXV. & CIV. | Dominvs  
ditat Terram onmis generis | Frugum ac Terræ  
nascentium varietate | In cibum & Medicinam. |  
M. [...printer's device...] D C. | Lipsiae, | Impensis  
Davidis Alberti | Bibliopolæ Vratislaviensis. | Cum  
gratia & priuilegio Sac. Cæs. Maiest.

[SECTIONAL TITLE PAGE:]

Fossilium Silesiæ | Catalogvs, | Omnis Generis  
Mi- | neralia, Metallica, Metal- | la, Svccos, Terras,  
Lapillos, Fontes | medicatos & Thermas continens:  
| Concinnatus opera & studio | Caspari Schwenck-  
feldt, Physici Hirsbergensis. | Hiobi 28. vers. 1. 2.  
6. | Habet Argentum venarum suarum principia: &  
est | locus Auro quod liquant Metallarij. Ferrum è  
strictu- | ris seu glebis venaque ferraria sumitur: &  
lapide æro- | so funditur Æs. | Terræ eius lapides  
loco Sapphiri; | Pulueres verò sunt illi. | [ornament]  
| Anno | [rule] | M. DC.

4<sup>o</sup>: a-e<sup>4</sup> A-Z<sup>4</sup> 2A-2Z<sup>4</sup> 3A-3G<sup>4</sup>; 232<sup>l</sup>.; [40], [1]-407, [1] blank, [15], [1] blank p. Colophon (3G4r): "Lipsiæ | Imprimebat Michael Lan- | tzenberger | [rule] Anno M. DC." PAGE SIZE: 184 x 144 mm.

CONTENTS: [2 pgs], Title page, verso "Medicum vel maximè sollicitum ..."; [13 pgs], Dedicatory epistola, signed Caspar Schvvenckfelt.; [1 pg], "Autorum, quorum in hoc opusculo | fit mentio, catalogvs."; [3 pgs], "Dn. | Casparo Schvvenck- | ..."; [2 pgs], "In Catalogvm | De Stirpibus Et Fossi- | libvs Silesiæ."; [1 pg], "In Catalogvm | Plantarvm Silesiæ viri Claris."; [18 pgs], Silesiæ Geo- | graphica Brevis | Delineatio."; [1]-4, "De Plantis In | Genere."; 5-221, "Stirpivm In | Silesia Sponte | Nascentivm | Liber primus."; [222], Blank.; 223-348, "Stirpivm Si- | lesiæ Hortensivm | Liber Secundus."; [349], Sectional title page.; 350-351, Preface.; 352, Poem.; 353-356, "Fossilivm Gene- | ralis Tabvla."; 357-407, "Fossilivm | Silesiæ, | Liber tertius."; [1 pg], Blank.; [15 pgs], "Index | Morborvm Re- | media, et alia in Hoc | Opere Notatv. Digna | Continens."; [1 pg], Blank.

VERY SCARCE. This is an early work on the botanical and subterranean wonders of Silesia in Germany. The preliminary pages contain a short section describing the geography of the area. This is followed by part one, which provides a comprehensive classified catalog of the botanical varieties of the area, including flowers, ferns, trees, agriculture etc. The second part, with its own sectional title page, is a detailed descriptive catalog of Silesia's fossils and minerals. It incorporates a general table outlining the classification scheme followed by a description of the fossils in four books. The system is an adaptation after AGRICOLA, and divides minerals and fossils into Terrae, Lapides, Succis and Metallica.

REFERENCES: Beekman, *Systematische Mineralogie*, 1906: 26. • BL. • Cobres, *Deliciæ Cobresianæ*, 1782: 1, 245. • Freilich Sale Catalog: no. 488. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 161 ["Weder ordentlich, noch vollständig genug."]. • Hoover Collection: no. 737. • LKG: XIV 294. • NUC: 533, 233-4 [NS 0328614]. • Pritzel, *Thesaurus Literaturæ Botanicae*, 1871-3: no. 8542. • VD17: 23:000447Q.



SCOPOLI

**SCOPOLI, Giovanni Antonio.** (BORN: Cavallese near Trent, Italy, 3 June 1721; DIED: Pavia, Italy, 8 May 1788) *Hungarian physician, chemist & botanist.*

In 1766, Scopoli was appointed professor of mineralogy at the mining academy in Schemitz Hungary. Then in 1777, he was named professor of chemistry and natural history at the University of Pavia in Italy.

After the studies in medicine to Innsbruck, it exercised the profession in the hospital of Trento and therefore to Venice, where it began to be interested of botany. Moved in the territories of the Austrian Empire doctor of the mining city of Idria in Carniola was name and therefore university professor of chemistry, mineralogy and metallurgy to the Mining Academy of Schemnitz, from 1769 to 1776. In these years it produced to its scientific works more rinomate than botanical and of mineralogy. In 1777 he was called to cover the chair of chemistry and botany to the university of Pavia, assignment that conserved until the year of the dead women, although its involvement in the failed attempt to discredit the colleague Lazzaro Spallanzani to the eyes of the university and governmental authorities.

REFERENCES: ABI: I 900, 5-22; II 563, 324; II S 76, 197-205. • Baldinger, *Biographien Ärzte*, 1768-71. • Benvenuti, *Dizionario degli Italiani all'Estero*, 1890. • *Bollettino della Società Geologica Italiana Roma*: 30 (1911), CDXC ff. • Bonomi, *Naturalisti, Medici e Tecnici Trentini*, 1930. • DBA: I 1166, 141-181. • Hacquet, B., *La vita di Belsazar Hacquet ed il suo viaggio a vela sulla Sava da Lubiana a Semlin. Autobiografia di Joannes Antonius Scopoli a cura di G. Pilleri e D. Music*. Waldau-Bern, Schweiz, Verlag des Hirnanatomischen Institutes, 1984. 119 p., [1] folded leaf of plates, illus., facsim., ports. [Contains biographies of B. Hacquet and G.A. Scopoli.]. • Imperatori, *Dizionario di Italiani all'Estero*, 1956. • ISIS, 1913-65: 2, 457. • Lambrecht & Quenstedt, *Catalogus*, 1938: 392. • *Magyar Eletrajzi Lexikon*: 2, 608-9. • Meusel, *Verstorbenen Deutschen Schriftsteller*, 1802-16. • Partington, *History of Chemistry*, 1961-70: 3, 590-1. • Poggendorff: 2, col. 880. • Stafleu & Cowan, *Taxonomic Literature*, 1976-88: 5, 453-6. • Stanojević, S., *Narodna Enciklopedija Srpsko-Hrvatsko-Slovenač Izdavač*, 4 (1929), 63 [By K. Nedeljko.]. • WBI. • Wellcome Catalog (History): 17, 557 [10 refs.]. • Wilson, *History of Mineral Collecting*, 1994. • *World Who's Who in Science*: 1509. • Wurzbach, *Biographisches Lexikon Österreich*, 1856-91.

**4381. — Latin, 1761** [First edition].

Joannis Antonii | Scopoli | [...3 lines of titles and memberships...] | De Hydrargyro | Idriensi | Tentamina | Physico-Chymico-Medica | I. De Mineral Hydrargyri. | II. De Vitriolo Idriensi. | III. De Morbis Fossorum Hydrargyri. | [ornament] | Venetiis, | Ex Typographia Radiciana. MDCCLXI. | [ornate rule] | Superirum Permissu.

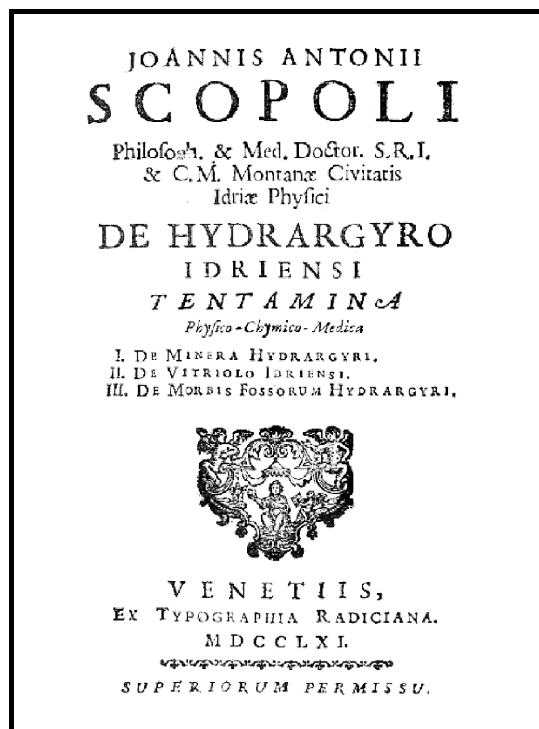
8<sup>o</sup>: [7], 160 p.

RARE. Mercury in Idrija comes in two guises: as cinnabar (mercury sulphide, HgS) rock inclusions, and as pure mercury, referred to as 'native' mercury.

Mercury was first exported via Venice to Levante, and later also to Germany and Holland, to be further exported to Mexico and Peru for use in amalgamation in silver and gold mines there. Since 1659 Amsterdam was the main export center. In 1785-1797, up to 700 tons of mercury were exported to Spain yearly.

In the 16th century, Paracelsus visited Idrija and introduced mercury in medicine. Joannes Antonius





DE HYDRARGYRO IDRIENSI, 1761

Scopoli served as medical doctor in Idrija from 1745 to 1769. (1761 is the year of the first lace and of the work by Scopoli: *De Hydrargyro Idriensi*.) Balthasar Hacquet, who also wrote the *Oryctographia Carniolica*, lived in Idrija from 1766 to 1773; at that time, Idrija was the second largest town in Carniola.

Of all medical sciences in Slovenia, occupational medicine has the longest tradition. It is not a mere coincidence that it had developed already at the beginning of 18th century in Idria. The mercury mine in Idria is the second largest European mine of its kind, next to Spanish Almaden, and has been owned by the Habsburg dynasty for four centuries. To attain higher production, the miners in Idria received medical and social care much earlier than anywhere else; chronic intoxication caused by mercury fumes greatly hindered their working ability. The first and, at the same time, one of the most prominent doctors in Idria, J.A. Scopoli (1723-1788) perfectly described the symptoms of chronic intoxication with mercury in his work *De Hydrargyro Idriensi Tentamina Physico-Chymico-Medica* (Venice, 1761) and thus ranked himself among the early medical writers of occupational medicine, medical hygiene and toxicology. His predecessors were Ellenbog, Paracelsus, Mattioli and some others. The article describes the situation in the mine of Idria in the 17th and 18th century and focusses on Scopoli's mineralogical and medical discussion on mercury miners and mercurialism.

REFERENCES: BL: [no copy listed]. • LKG: XVI 378.

• Slavec, Z.Z., "Occupational medicine in Idria Mercury Mine in 18th century," *Vesalius - Acta Internationales Historiae Medicinae*, 4 (1998), no. 1, 51-59. • Valentinitich, H., "Die Versorgung des Bergwerks Idrija (Idria) mit Gefäßen für die Quecksilbergewinnung 1490-1750," (pp. 21-32) in: *Bergbaureviere als Verbrauchszentren im vorindustriellen Europa: Fallstudien zu Beschaffung und Verbrauch von Lebensmitteln sowie Roh- und Hilfsstoffen (13.-18. Jahrhundert)*. – Franz Steiner, 1997. • Wellcome Catalog (Books): ??.

4382. 2nd edition, 1771: Ioann. Ant. Scopoli S.C.R. et apost. ... *De hydrargyro idriensi tentamina physico-chymico-medica*. I. De minera hydrargyri, II. De vitriolo idriensi, III. De morbis fessorum hydrargyri Giovanni Antonio Scopoli. – Denuo edidit J.C.T. Schlegel ... Jenae et Lipsiae, Apud Joann. Guil. Hartung, 1771. 8°: A-E<sup>8</sup> F<sup>7</sup>; 47<sup>l.</sup>; 94 p.

RARE. Edited by Johann Christian Traugott Schlegel [1746-1824].

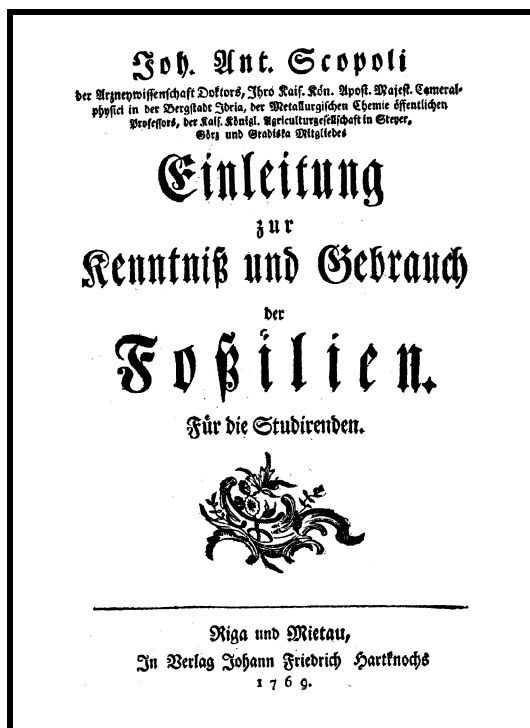
REFERENCES: BL: [B.247.(1.)].

4383. German transl., 1786: Physikalisch-chemische Abhandlung vom Idrianischen Quecksilber und Vitrol. Uebersetzt von Karl, Freyherrn von Meidinger. München, J. Lindauer, 1786.

8°: 108 p.

RARE. Translation by KARL FREIHERR VON MEIDINGER of *De Hydrargyro Idriensi Tentamina Physico-Chymico-Medica* (Venetia, 1761).

REFERENCES: BL: [no copy listed]. • LKG: XVI 379. • NUC: 533, 503-4 [NS 0335035]. • Ward & Carozzi, *Geology Emerging*, 1984: no. ??.



EINLEITUNG ZUR KENNTNISS, 1769

4384. — German, 1769 [First edition].

Joh. Ant. Scopoli | [...4 lines of titles and memberships...] | Einleitung | zur | Kenntniß und

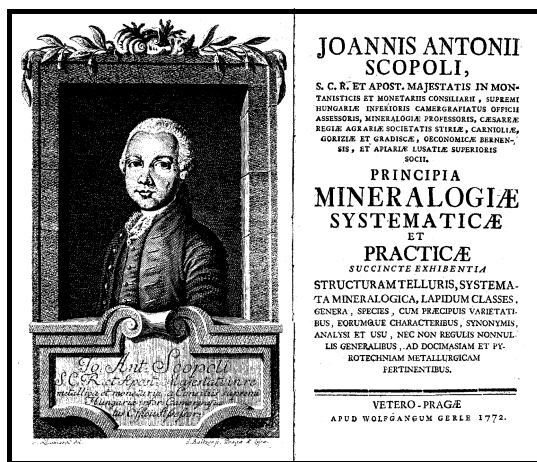
Gebrauch | der | Foßilien. | Für die Studirenden.  
| [ornament] | [rule] | Riga und Miteau, | In Verlag  
Johann Friedrich Hartknoch's | 1769.

8°: \*2 A-M<sup>8</sup> N<sup>2</sup>; 108ℓ.; [20], [1]-195, [1] p. PAGE  
SIZE: 194 x 120 mm.

CONTENTS: [2 pgs], Title page, verso blank.; [2 pgs],  
Dedication.; [8 pgs], "Vorrede."; [8 pgs], "Inhalt."  
[=overview of classification].; [1]-195, Text.; [1 pg], Blank.

RARE. This is Scopoli's first text book on mineralogy. It is an introductory work in mineralogical science, written for the student, and based upon the author's own experience in studying and arranging his mineral collection. Scopoli had become interested in minerals while studying the mercury mines of the Austro-Hungarian Empire in 1760, and being a curious naturalist had built a substantial cabinet of minerals and fossils. These he arranged according to his own classification system containing two classes: (1) earths and (2) mined substances ('Minern'). Within the first class are contained limestone, chalk, gypsum, clay, mica, asbestos, precious stones, crystal, quartz, fluorite, sandstone, etc., while the second class lists salts, hard earths like opal, amber, sulfur, and precious, semiprecious and semi-metals.

REFERENCES: Beckmann P.Ö.B.: 1, 141. • *Berlinische Sammlungen*: 1, 537 & 9, 319. • BL: [970.g.1.]. • Ferguson, *Bibliotheca Chemica*, 1906: 2, 354-5. • LKG: XII 65. • NUC: 533, 503-4 [NS 0335020]. • Wrany, *Pflege der Mineralogie in Böhmen*, 1898: 53.



PRINCIPIA MINERALOGIÆ, 1772

**4385. — Latin, 1772 [First edition].**

Joannis Antonii | Scopoli, | [...8 lines of titles and membeships...] | Principia | Mineralogiae | Systematicae | Et | Practicae | Succincte Exhibentia | Structuram Telluris, Systemata Mineralogica, Lapidum Classes, | Genera, Species, Cum Praecipuis Varietatibus Eorumque Characteribus, Synonymis, | Analysi Et Usu, Nec Non Regulis Nonnullis Generalibus, Ad

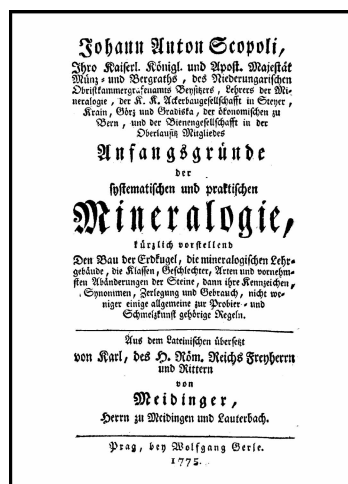
Docimasiam Et Py- |rotechniam Metallurgicam | Pertinentibus. | [double rule] | Vetro-Pragae | Apud Wolfgangum Gerle 1772.

8°: )(10 A-O<sup>8</sup> P<sup>2</sup>; 119ℓ.; [8], i-xii, 1-228 p., frontispiece (portrait of Scopoli).

CONTENTS: [Frontispiece.]; [2 pgs], Title page, verso "Via triplex per Renum lapidum, ..."; [1 pg], "Omnibus | Et | Singulis | Qui | Studio | Mineralogico | Generis Humani | Commoda Provent | Opusculum | HDC | D.D. | Author.;" [1 pg], Blank.; [4 pgs], "Præfatio.;" i-xii, Outline of mineralogical system.; 1-226, Text.; 227-228, "Vocabula | Latina rerum nonnullarum, | Germanice exposita." with printer's device at the end.

RARE. Pages 1-8 provide a short overview of Scopoli's views on the structure of the earth in a section titled, "Structura Telluris." A descriptive mineralogy arranged along the scheme outlined on pages i-xii then occupies the text from page 1 until page 226. At the conclusion is a short glossary equating Latin and German terms.

REFERENCES: Beckmann P.Ö.B.: 4, 124. • *Berlinische Sammlungen*: 8, 670 & 9, 319. • BL: [990.f.4.]. • *Freilich Sale Catalog*: no. 489. • LKG: XII 66a. • NUC: 533, 503-4 [NS 033038]. • Schröter's *Journal für die Liebhaber*: 3, 137. • Ward & Carozzi, *Geology Emerging*, 1984: no. 2009. • Wilson, *History of Mineral Collecting*, 1994: p. 192.



ANFANGSGRÜNDE, 1775

**4386. German transl., 1775: Johann Anton Scopoli, | [...7 lines of titles and memberships...] | Anfangsgründe | der | systematischen und praktischen | Mineralogie, | kürzlich vorstellend | Den Bau der Erdkugel, die mineralogischen Lehr- | gebäude, die Klassen, Geschlechter, Arten und vornehm- | sten Abänderungen der Steine, dann ihre Kennzeichen, | Synonimen, Zerlegung und Gebrauch, nicht weniger einige allgemeine zur Probier- und Schmelzkunst gehörige Regeln. | [rule] | Aus dem Lateinischen übersetzt | von Karl, des H. Röm. Reichs Freyherrn | und Rittern | von | Meidinger, | Herrn zu Meidingen und Lauterbach. | [rule] | Prag, bey Wolfgang Gerle. | 1775.**

8°: )(8 )(4 A-M<sup>8</sup>; 113ℓ.; [14], I-X, [1]-192 p. PAGE  
SIZE: 192 x 118 mm.

CONTENTS: [2 pgs], Title page, verso "Durch das  
Steinreich geht ein drey- | facher Weg.;" [1 pg],  
Dedication.; [1 pg], Blank.; [6 pgs], "Vorrede | des

## SCOPOLI

Uebersetzers.”; [4 pgs], “Vorrede des Verfassers.”; I-X, “Die Klassen, Geschlechter, ...”; [1]-192, Text.

VERY SCARCE. Translation by KARL FREIHERR VON MEIDINGER of *Principia Mineralogiae Systematicae et Practicae* (1st ed., Vetro-Pragae, 1772).

REFERENCES: *Berlinische Sammlungen*: 8, 671. • BL: [726.f.1.]. • *Leipziger allgemeines Verzeichniss*: 1776, 65. • LKG: XII 67b. • NUC: 533, 503-4 [NS 0335014]. • Schröter's *Journal für die Liebhaber*: 3, 137-42.

**4387. Italian transl., 1778:** Principj | Di Mineralogia | Sistematica E Pratica | Che Succintamente Contengono | La Struttura della Terra, li Sistemi Mineralogici, le Classi | delle Pietre, i Generi, le Specie, colle principali loro | Varieta, Caratteri, Sinonimi, Analisi, ed Uso, | Come ancora | Alcune regole generali appartenenti alla Docimasia, | alla Pirotechnia Metallurgica ec. ec. | Del Signor | Giovannantonio [sic] Scopoli, | [...7 lines of titles and memberships...] | [double rule] | Traduzione | Dal Latino In Italiano, | Con Aggiunta Di Varie Note, ec. | [ornament] | In Venezia, MDCCLXXVIII. | Presso Giambattista Novelli | Con Licenza de' Saperlori, e Privilegio.

8°:  $\pi^4$  A-P<sup>8</sup> Q2; 132 $\ell$ .; [i]-xvi, 1-246, [2] p. PAGE SIZE: 135 x 210 mm.

CONTENTS: [i-ii], Half title page, verso blank (missing from copy examined); [iii-iv], Title page, verso “Via triplex per Regnum lapideum. | ...”; [v], “A Tutti Ed A Ciascuno | Di Quelli Che Collo Studio | Della | Mineralogia | Promuovono I Comodi Del Genere Umano | L' Autore | D.D. | Quest' Opuscolo.”; [vi], Blank.; vii-xii, Dedication, dated 20 November 1775; xii-xvi, “Prefazione | dell'Autore.”; 1-246, Text.; [1 pg], Errata.; [1 pg], Blank.

VERY RARE. Translation by Angelo Gualandris [see note below] and GIOVANNI ARDUINO from *Principia Mineralogiae Systematicae* (1st ed., Vetro-Pragae, 1772). Numerous notes were added by the translators. The text begins with a dedication by the translator (pp. vii-xii), and continues with the author's preface (pp. xiii-xvi). An outline of Scopoli's method of classification, as set forth in this work, is found at the beginning of the work (pp. 1-11), followed by a discussion of general mineralogical principles, including a review of previous mineralogical systems (pp. 12-29). Scopoli's classification scheme is then set forth in the remainder of the volume (pp. 30-246).

**Angelo Gualandris.** (BORN: 1750; DIED: 1788) *Italian physician & naturalist.*

[  
[ BIOGRAPHY NEEDED ]  
]

REFERENCES: BL: [no copy listed]. • *L'Esprit des Journal*: May 1778, 373. • NUC: 533, 503-4 [NS 0335037]. (Gualandris) ABI: I 517, 413-419. • DBA: I 433, 459-460. • WBI. • Wurzbach, *Biographisches Lexikon Österreich*, 1856-91.

### 4388. — Latin, 1776 [First edition].

[Contained within a ornate, engraved box] Joan. Ant. Scopoli | [...4 lines of titles and memberships...] | Crystallographia | Hungarica. | Pars I. | exhibens | Crystallos indolis terræ | cum Figuris rariorum. | [Inscribed on the border] Pragæ apud Wolfgangum Gerle 1776.

4°:  $\pi^1$ )<sup>6</sup> A-R<sup>4</sup> S<sup>2</sup>; 127 $\ell$ .; [14], [1]-139, [1] p., 19 folding engraved plates of mineral specimens, engraved title page, printer's device (p. 139). PAGE SIZE: 230 x 170 mm.

CONTENTS: [2 pgs], Half title page, “Jo. Ant. Scopoli Crystallographia Hungarica. Pars I.” verso blank.; [2 pgs], Title page, verso blank.; [2 pgs], Dedication to “Joanni Friderico.”; [4 pgs], “Præatio”—dated January 1774;



CRYSTALLOGRAPHIA HUNGARICA, 1776

[4 pgs], “Crystallographia” [=synopsis of the classification scheme]; [1]-139, Text.; [1 pg], Blank.; [At end], 19 folding plates of mineral specimens (no crystal drawings!).

RARE. Only the first part of this work which was to encompass all the minerals of Hungary was published. The plates show numerous figures of minerals specimens.

REFERENCES: *Berlinische Sammlungen*: 6, ??; BL: [457.a.15.]. • Dana's 7th (Bibliography): 80. • Hoover Collection: no. 738. • LKG: XIV 845. • NUC: 533, 503-4 [NS 0335017].

### 4389. — Latin, 1777.

Introductio ad historiam natvralem, sistens genera lapidvm, plantarvm et animalivm hactenus detecta, caracteribvs essentialibvs donata, in tribvs divisa, svbinde ad leges natvrae. Pragae, Wolfgangum Gerle, 1777.

8°: [8], 506, [34] p. RARE.

REFERENCES: BL: [955.f.20.].

### 4390. — Latin, 1769-72 [Periodical].

Ioannis Antonii Scopoli | Annvs I. [-V.] | Historico- | Naturalis. | [ornate rule] | [...list of contents...] | [ornament] | [rule] | Lipsiæ, | svmtib. Christ. Gottlog Hilscheri, | MDCCLXIX [-MDCCLXXII].

5 vols.

RARE. An interesting early periodical by the famous physician-naturalist, containing articles on mineralogy, botany and other natural history subjects.

REFERENCES: BL: [957.b.14.]. • LKG: VI 45. • NUC: 533, 503-4 [NS 0335015]. • Wood, *Literature of Vertebrate Zoology*, 1931: p. 559.

**4391. German transl., 1770-81:** Bemerkungen aus der Naturgeschichte. Aus dem Latein Anmerkung. Der 1. Jahrg. v.

F.C. Gunther, der 2. und 3. von K. von Meidinger. Leipzig und Wien, 1770-81.  
3 vols.

RARE. German translation of *Annus ... historico-naturalis*.

1: Erstes Jahr - welches die Vögel seines eigenen Cabinets und zugleich einige seltene, die er in dem Kayserl. Thiergarten und in der Sammlung des Hrn. Grafen Franz Hannibal von Thurn gesehen, beschreibt (1770). 2: Zweites Jahr - enthaltend: I. Die Reise nach Görz ; II. Die Reise nach Tyrol ; III. Bemerkungen über den Pfebenkürbis ; IV. Die Arzneikräften der Isländischen Flechte (1781). 3: Drittes Jahr - enthaltend: I. Die Beantwortung der Frage: ob die Aerzte, wie Plinius sagt, einmal aus Rom gejagt worden? ; II. Eine Abhandlung von der Rindviehseuche ; III. Einige Beobachtungen über das Berlinerblau und andere Lacke ; IV. Versuche mit dem Nagyager Golderze (1781).

REFERENCES: LKG: VI 46a.

**4392. Continuation, 1772:** Joann. Ant. Scopoli ... Dissertationes ad Scientiam Naturalem Pertinentes. Pars I. Tentamen Mineralogicum de Schematibus Metallorum. De Minera Argenti Rubra. De Sinopi Hungarica Sinopi Dicta. Plantæ Subteraneæ Descriptæ & Delineatæ. Pragæ, Sumptibus Wolfgangum Gerle, 1772.

3 parts. 8°: 120 p., 46 folding plates, numbered I-XLVI.

RARE. Intended as a continuation of *Annus Historico-Naturalis* (5 vols., Lipsiæ, 1769-72).

REFERENCES: BL: [957.g.20.]. • LKG: VI 47b. • NUC: 533, 503-4 [NS 0335019].

#### SCOPOLI, Johann.

See: Scopoli, Giovanni Antonio.



SEBA

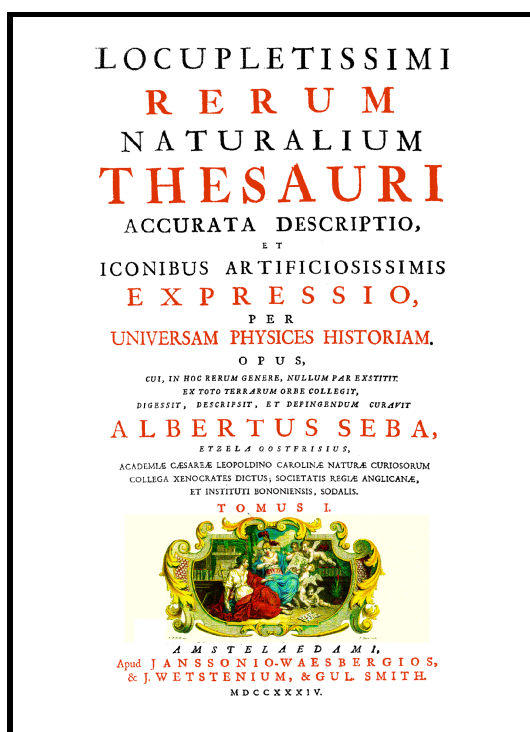
**SEBA, Albertus.** (BORN: Eetzel, near Friedeburg in Ost-Frieze, Germany, 13 May 1665; DIED: Amsterdam, The Netherlands, 3 May 1736) *German apothecary & naturalist.*

Seba was born a peasant without fortune or prospects. The master of the village school noticed his eagerness to learn, however, and gave him instruction in Latin and all else he thought useful. After benefiting from these lessons, Seba was able to become an apprentice to an apothecary in Neustadt-Goedens, a town near his birth place. After his apprenticeship, Seba moved to Amsterdam, where he found work in the flourishing pharmaceutical

industry. Through connections he made there, Seba was offered the opportunity to travel abroad. He made two profitable voyages acting as agent for the famous Dutch East-India Company. Upon his return from the second venture, he settled in Amsterdam, where he married and established his own successful apothecary shop.

REFERENCES: Aa, *Biographisch Woordenboek*, 1852-78.

• Ahlrichs, E., *Albertus Seba. Zu seinem 250. Geburtstag*. Aurich, Verlag der Ostfriesischen Landschaft, 1986. [1]-48 p., illus. [Published as: *Ostfriesische Familienkunde*, Heft 6. ISBN: 3925365087.]. • BAB: 619, 191-195. • *Biografisch Woordenboek Nederland*. • *Biographie Universelle*: 38, 606. • DBA: I 1167, 41-89. • *Deutsche Apotheker Biographie*: 2, 619. • Hirsching, *Historisch-literarisches Handbuch*, 1794-1815. • Jöcher, *Gelehrten-Lexikon*, 1750-51. • Kobus, *Biographisch Woordenboek*, 1886. • Müsch, I., *Das Naturalienkabinett von Albertus Seba*, 2001. [Not yet published. ISBN: 3822855057.]. • NNBW. • Poggendorff: 2, col. 884. • WBI.



LOCUPLETISSIMI, 1734

#### 4393. — Latin & Dutch [or French], 1734-65.

[In black:] Locupletissimi | [in red:] Rerum |  
[in black:] Naturalium | [in red:] Thesauri |  
[in black:] Accurata Descripto, | Et | Iconibus  
Artificiosissimis | [in red:] Expressio, | [in black:]  
Per | [in red:] Universam Physices Historiam. |  
[in black:] Opus, | Cui, In Hoc Rerum Genere,  
Nullum Par Exstitit. | Ex Toto Terrarum Orbe  
Collegit, | Digessit, Descripsit, Et Depingendum  
Curavit | [in red:] Albertus Seba, | [in black:] Etzela  
Oostfrisius, | Academiae Caesaræ Leopoldino  
Carolinae Naturæ Curiosorum | Collega Xenocrates

## SEBA

Dictus; Societatis Regiæ Anglicanæ, | Et Instituti Bononiensis, Sodalis. | [in red:] Tomus I. [-IV]. | [vignette] | [in black:] Amstelaedami, | [in red:] Apud Janssonio-Waesbergios, | & J. Wetstenium, & Gul. Smith. | [in black:] MDCCXXXIV. [-MDCCLXV].

4 vols. [VOL 1: 1734] 2°:  $\pi^2 \chi^1$  \*-----\*<sup>2</sup> A-2X<sup>2</sup> 2Y<sup>1</sup>; 107ℓ.; [36], 178 p., frontispiece (portrait of Seba), 111 plates.; [VOL 2: 1735] 2°:  $\pi^2$  \*-----\*<sup>2</sup> \*-----\*<sup>1</sup> A-2P<sup>2</sup> 2Q<sup>2</sup>; 94ℓ.; [34], 154 p., 114 plates.; [VOL 3: 1758] 2°:  $\pi^2$  \*-----\*<sup>2</sup> \*-----\*<sup>1</sup> A-3G<sup>2</sup>; 119ℓ.; [26], 212 p., 116 plates.; [VOL 4: 1765] 2°:  $\pi^2$  \*-----\*<sup>2</sup> \*-----\*<sup>1</sup> A-3K<sup>2</sup> 3L<sup>1</sup>; 131ℓ. [4], 42, 214, [2] p., 108 plates. PAGE SIZE: 540 x 370 mm.

CONTENTS: [Vol 1] [2 pgs], Half title page, verso blank.; [Frontispiece by Tanjé facing the title page]; [2 pgs], Title page, verso blank.; [2 pgs], Dedication to the Academia Caesarea Leopoldino-Carolina.; Portrait of Seba by Jak. Houbraken after J.M. Quinkhard, verso blank.; [2 pgs], Preface by Herman Boerhaave, dated Leyden, 27 September 1733.; [6 pgs], Latin preface by Seba.; [5 pgs], Dutch preface.; [3 pgs], Poem in Latin by H.D. Gaubius, who translated the text of the work to Latin.; [2 pgs], Poem in Dutch by J.A. van Orsoy.; [9 pgs], Index.; [1 pg], "Rerum."; [1]-178, Text.

[Vol 2] [2 pgs], Half title page, verso blank.; [2 pgs], Title page, verso blank.; [2 pgs], Letter in Latin by Jacobus Baierus, dated 1734.; [2 pgs], Poem in German by Jacob Baier.; [8 pgs], Latin preface.; [8 pgs], Dutch preface.; [10 pgs], Index in Dutch.; [1]-154, Text.

[Vol 3] [2 pgs], Half title page, verso blank.; [2 pgs], Title page, verso blank.; [2 pgs], Latin preface.; [2 pgs], Dutch preface.; [17 pgs], Index with Latin and Dutch juxtaposed.; [1 pg], "Lugduni Batavorum Typis Eliae Luzac, Juniores MDCCCLXIX."; [1]-212, Text.

[Vol 4] [2 pgs], Half title page, verso blank.; [2 pgs], Title page, verso blank.; I-IV, Latin preface.; V-VIII, Dutch preface.; 9-42, "Index-Bladwyzer."; [1]-214, Text.; 129-176, Latin index.; 177-226, French index.; 227-214, Dutch index.

VERY SCARCE. This magnificent work, commonly called Seba's *Thesaurus*, is a well know illustrated natural history, which in its colored form, is one of the most sumptuous and complete records of any 18th century rariteitkammern. Its purpose was to describe and picture the natural history of the known world. The 449 plates (175 double-page) by P. Tanjé, A. van der Laan, F. de Bakker, A. van Buysen jun., De La Croix, J. Folkema, W. Jongman, F. Morellon, K.D. Pütter, J. Punt and J. van der Speyk show specimens from all branches of natural history including some minerals and fossils often in fantastic if not bizzare groupings. It was the product of the golden age of Dutch bookmaking, and it is one of its greatest examples.

The text is known in two issues. The most common being Latin with a parallel French translation and the rarer issue consisting of the same Latin but with the French text being replaced by one in Dutch. The commentary describes in an unscientific though complex method Seba's arrangement of the specimens in his museum. However, it is not the text that makes this work desirable, but the astonishing and numerous plates depicting at natural size many thousands of individual natural history specimens contained in the collection. The first volume describes and illustrates

various leaves, fruits, roots that have been dissected to illustrate their internal structure, strange and exotic plants, rare animals most notable being the winged species of dogs, cats, rats, mice, squirrels, beautiful birds from the East and West Indies together with their nests, exotic snakes, lizards, crocodiles, iguanas, chameleons, salamanders, rats, mice, toads and frogs. The second volume shows a variety of extraordinary snakes, adders, lizards together with their anatomical structure, collected from different parts of the world. Also included are descriptions of various fossils and exotic plants. The third volume deals primarily with marine treasures such as beautiful shells, conches, starfish, marine plants, corals, sea spiders, sea mosses. The final volume depicts rare insects gathered from all corners of the earth as well as many varieties of precious minerals and ores and petrified wood.

Seba's early studies had given him a taste for natural history, and using the large fortune he had accumulated by his earlier travels he began collecting natural history specimens. He built a remarkable collection that became famous throughout Europe. Upon its merits, Seba was elected to membership in London's Royal Society, the Imperial Academy of Vienna, and other societies. In 1716, when Russia's Peter the Great [??-??] visited Amsterdam for a second time, he purchased the museum for the tremendous sum of 15,000 guilders and removed it to St. Petersburg, where it became the nucleus of a natural history collection in that city's academy of science. However, Seba could not contain his desire to collect, and so he embarked almost immediately on forming another collection, which by many accounts outshone his first effort within a few years.

As an apothecary, Seba was among the first to board ships newly arrived from overseas to sell and dispense medicines to the sick and exhausted crews. During this time, he would enquire as to what curiosities they had brought back from their voyage, and many times this would allow Seba to make a quick purchase. Duplicate items were then resold to his fellow collectors for profit. Seba elected to preserve a memory of this collection for posterity and embarked after a time to prepare an elaborate illustrated catalog.

Seba seems to have written the basic text for the first volumes of the *Thesaurus* in Dutch, but he died in 1736 before all the volumes had been completed. Thereafter many other authors would have a hand in the works completion. The most important of these were P. Artedi [1705-1735] who wrote the descriptions of the fishes, P. van Musschenbroek [1692-1761] and H.D. Graubius [??-??]. Engel (1937) reproduces the agreement between Seba and the two firms of booksellers mentioned in the initial imprint and Landwehr (1976) provides a highly interesting translation of the original prospectus for the work. From these two researchers it can be said that Seba and the publishers were each to pay one third of the costs and after some concessions to Seba for providing the copy, they would equally share the profits. The work

was published at 40 guilders a volume plain and 200 guilders colored. With Seba's death in 1736, and only two volumes thus far published and volume three only partially complete, the work seemed destined never to be finished.

Only through the attention of Seba's son-in-law, Van Ommeting was the work carried through. But in order to pay the remaining publication costs, Seba's fabulous museum which upto that time had remained intact had to be auctioned. This occurred sixteen years after Seba's death on 14 April 1752 and subsequent days. The entire sale realized 24,440 guilders (Engel, 1961), more than enough money for the *Thesaurus* to be completed.

Of mineralogical interest are plates 100–103 of volume four. Here are depicted over 100 mineral specimens, many of them fine examples and obviously the product of careful selection. They are mostly metallic species containing gold, silver, mercury, iron and copper. The golds came from Sumatra, Japan, Hungary, Borneo, Siam, Cuba, Ceylon and "New Spain." The silver and silver ores are listed as coming from Norway, Japan, Guinea, Germany, Siam, Hungary, Arabia and Virginia. As Wilson (1994) points out, "Despite its relatively small size and clearly subsidiary status amid his much vaster array of plant and animal remains, [Seba's] mineral collection was surprisingly sophisticated and broad-based in its range of localities."

**English, 2001:** *Albertus Seba's Cabinet of Natural Curiosities* by Irmgard Muesch, Jes Rust, Rainer Willmann. Illustrated by Den Haag Koninklijke Bibliotheek Staff 600pp. [ISBN: 3822855057]. Photographic reprint of the 4 volumes into a single book with extensive commentary.

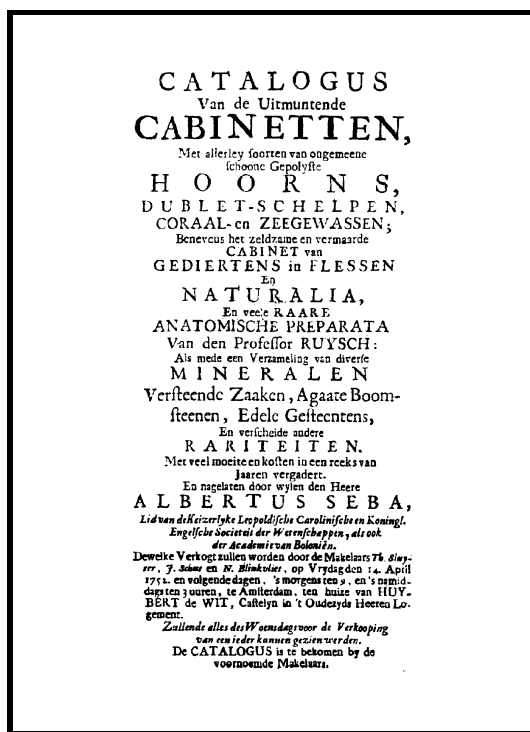
**REFERENCES:** BL: [457.g.1-4.]. • *Biographie Universelle*: 38, 606. • Dance, *Shell Collecting*, 1966: 40-41. • Dean, *Bibliography of Fishes*, 1916: 2, 433. • Engel, *Dutch Zoological Cabinets*, 1986. • Engel, H., "The Life of Albertus Seba," *Svenska Linné-Sällskapet's Årsskrift*: 20 (1937), 75-100. • Engel, H., "The Sale Catalogue of the Cabinets of Natural History of Albertus Seba (1752). 'A curious Document from the period of Naturae Curiosus,'" *Bull. Res. Council Israel, Sect. B., Zoology*: 10B (1961), 119-31. • *Freilich Sale Catalog*: no. 490. • Holthius, L.B. (1969). • Klauber, L.M., 1945. • Landwehr, *Studies in Dutch Books*, 1976: 67-70 & 184-185. • LKG: XV 8. • Murray, *Museums*, 1904: 1, 115-16. • Nissen (BBI): no. 1825. • Nissen (ZBI): no. 3793. • NUC: 535, 599 [NS 0370837]. • Plesch, *Stiftung für Botanik Auction*, 1975-6: no. 862. • *Albertus Seba's Locupletissimi Rerum Naturalium Thesauri (1734-1765) and the Planches De Seba (1827-1831)*. 1969. 35 p. [Published as: *Netherlands Rijksmuseum Van Natuurlijke Historie Te Leiden Zoologische Mededelingen*, 43-19.]. • Stillwell, *Awakening Interest in Science*, 1970: 106. • Wilson, *History of Mineral Collecting*, 1994: 115-16, 197. • Wood, *Literature of Vertebrate Zoology*, 1931: p. 560.

**4394. Reissue of plates, 1827-8:** *Planches de Seba, Locupletissimi Rerum Naturalium Thesauri Accurate Descriptio. Accompanées d'un texte explicatif mis au courant de la science et rédigé par une réunion de Savans. Le Bon Cuvier, ... Ouvrage publié par les soins de M.E. Guérin. Paris, F.G. Levrault, 1827-28.*

4 vols. in 2. 2°. Title from the wrapper.

**VERY RARE.** Reprint of the plates from Seba's *Thesauri* with a new commentary by Felix Édouard Guérin-Méneville [1799-1874]. The only part of the text published was issued with Livre 5, 1827, as an explanation of plates 1-48 of volume 3.

**REFERENCES:** BL: [no copy listed]. • NUC: 535, 599 [NS 0370839]. • *Albertus Seba's Locupletissimi Rerum Naturalium Thesauri (1734-1765) and the Planches De Seba (1827-1831)*. 1969. 35 p. [Published as: *Netherlands Rijksmuseum Van Natuurlijke Historie Te Leiden Zoologische Mededelingen*, 43-19.].



CATALOGUS, 1752

**4395. — Dutch, 1752 [Sale catalog].**

Catalogus | Van de Uitmuntende | Cabinetten, | Met allerley soorten van ongemeene | schoone Gepolyfte | Hoorns, | Dublet-Schelpen, | Coraal en Zeegewassen; | Benevut het zeldzame en vermaarde | Cabinet van | Gediertens in Flessen | En | Naturalia, | En veele Raare | Anatomische Preparata | Van den Professor Ruysch: | Als mede een Verzameling van diverse | Mineralen | Versteende Zaaken, Agaate Boom- | steenen, Edel Gesteentens, | En verscheide andere | Rariteiten. | Met veel moeite en kosten in een reeks van | Jaaren vergadert. | En nagelaten door wylen den Heere | Albertus Seba, | Lid van de Keizerlyke Leopoldische Carolinische en Koningl. | Engelsche Societate der Wetenschappen, als ook | der Academie van Bolniën. | Dewelke Verkogt zullen worden door de Makelaars Th. Sluyzer, J. Schus en N. Blinkvliet, op Vrydag den 14. April | 1752. en volgende dagen, 's morgens ten 9,

## SEIFFERT

en's namid - | dagsten 3 uren, te Amsterdam, ten huize van Huy- | bert de Wit, Castelyn in 't Oudezyds Heeren Lo- | gement. | Zullende alles des Woensdags voor de Verkoop | van een ieder kunnen gezien werden. | De Catalogus is te bekomen by de | voornoemde Makelaars.

8°: 51, 38, 22 p.

RARE. Auction sale catalog of Seba's collections that took place on 14 April 1752 and the following days. Included in the sale were anatomical specimens prepared by the great physician, FREIDRICH RUYSCH, as well as stuffed animals and birds, small animals preserved in alcohol, dried flowers, nuts and woods of foreign lands, corals, etc. A major component of the sale were the lots containing the minerals, stones, petrified objects, agates, bloodstones, precious and semi-precious gemstones.

REFERENCES: *Biographie Universelle*: 38, 606. • Engel, H., "The Life of Albertus Seba," *Svenska Linné-Sällskapets Årsskrift*: 20 (1937), 75-100. • Engel, H., "The Sale Catalogue of the Cabinets of Natural History of Albertus Seba (1752). 'A curious Document from the period of Naturae Curiosus'," *Bull. Res. Council Israel, Sect. B., Zoology*: 10B (1961), 119-31. • Holthius, L.B. (1969). • Klauber, L.M., 1945. • Murray, *Museums*, 1904: 1, 115-16. • Wilson, *History of Mineral Collecting*, 1994: 224.

**SEBISCH (Sebiz), Johann Albert.** (BORN: 1615; DIED: 1685) *German physician.*

REFERENCES: DBA: I 1167, 188. • Jöcher, *Gelehrten-Lexikon*, 1750-51. • WBI.

**4396. Dissertation, 1668:** Dissertatio de Lapide Lazuli. Quem ... Sub Praesidio ... Iohan. Alberti Sebizii ... philiatron placidae disquisitioni propono ... Auctor & Respondens Georgivs Petrvs Pierervs, Ratisponens. Argentorati, Tidemann, 1668.

4°: 58 (i.e., 56) p.

VERY SCARCE. Respondent, Georg Peter Pierer.

REFERENCES: BL. • LKG: XVI 330.

## SEIDEL, José.

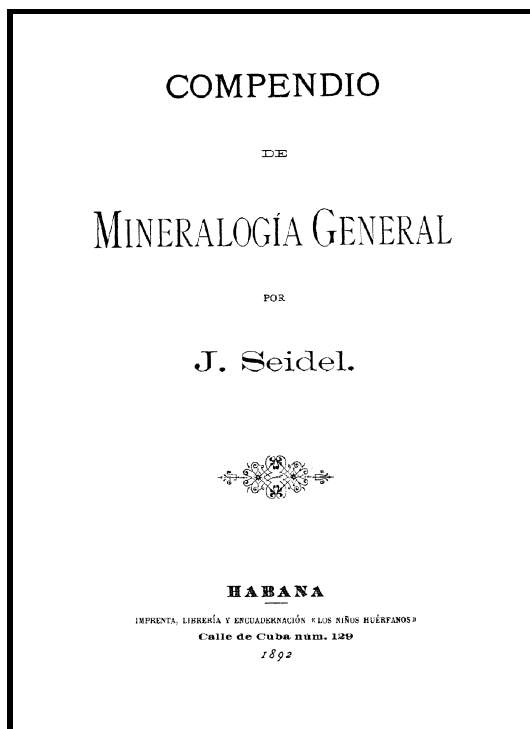
**4397. — Spanish, 1892.**

Compendio | De | Mineralogía General | Por | J. Seidel. | [ornament] | Habana | [rule] | Imprenta, Librería Y Encuadernación Lons Niños Huérfanos | Calle de Cuba núm. 129 | 1892.

8°: [I]-XIV, [1]-336, [2] p., 4 folding plates (crystal diagrams), folding table (p. 126). PAGE SIZE: 220 x 140 mm.

CONTENTS: [I-II], Title page, verso blank.; [III], Dedication to D. Juan Vilaró y Diaz.; [IV], Blank.; [V]-VII, "Advertencia."; [VIII], Blank.; [IX], "Bibliografía."; [X], Blank.; [XI]-XIV, "Plan De La Obra."; [1]-331, Text.; [332], Blank.; [333]-336, "Índice."; [1 pg], Errata.; [1 pg], Blank.; [At end], 4 folding plates.

SCARCE. This mineralogy, published in Havana, Cuba, is divided into 6 books. This first (p. 1-40) provides an introduction to the study of minerals. The second (p. 41-90) covers mineralogy, crystallography, geometry and physics. The third (p. 91-154) describes determinative mineralogy through the analysis of minerals. The fourth (p. 155-252) is a systematic mineralogy, which contains some historical information



COMPENDIO, 1892

about the development of mineral systematics. The fifth (p. 253-308) is an applied mineralogy, specifically for looking for ore deposits. The sixth (p. 309-331) concerns the creation of synthetic minerals in the laboratory. The work concludes with an index.

REFERENCES: Alvarez Conde, J., *Historia de la geología, mineralogía y paleontología en Cuba*. Prologo por Salvador Massip y Valdes. Habana, 1957. xvi, 248 p., illus., ports., maps (part fold.). [Series: *Historia de las ciencias naturales de Cuba*, vol. 2.]: p. 39. • NUC.

## SEIFFERT, Christian Ehrenfried.

**4398. — German, 1728** [Bibliography].

Bibliotheca | Metallica, | Oder | Bergmännischer | Bücher=Vorrath, | vorstellend | Auf dem Ersten [-Andern, -Dritten] Rrepoistorio, | Decemviros, | Das ist: | Zehn Gelehrte Männer | welche von | Bergwercks=Sachen | theils ausführlich, theils beyläuffig, geschrieben haben, | Allen Bergwercks=Liebenden zum Unterricht und | Nutzen, mit Fleiß und Mühe zusammen getragen, | In Quartale Reminiscere, Anno MDCCXXVIII. | durch einen | Bau=lustigen Grund=Herrn Edler Bergwercke. | [double rule] | Gedruckt zu Leipzig bey Christoph Zunkel.

3 parts. [Part 1] 8°: [1]-120 p. [Part 2] 8°: 121-220 p. [Part 3] 8°: 221-300 p.

VERY SCARCE. Although no name appears on the title page, this compilation of books and

articles concerning mining, metallurgy and mineralogy is attributed to Seiffert. It is one of the earliest bibliographical compilations on the subject only preceded by Leupold's *Prodromus* (Leipzig, 1726).

REFERENCES: BL: [619.k.28].

**SELLA, Quintino.** (BORN: Mosso near Biella, Italy, 7 July 1827; DIED: Mosso near Biella, Italy, 14 March 1884) *Italian statesman & mining engineer.*

Royal mining engineer, professor of geometry and director of the mineralogical museum at the Royal Technical Institute in Turin.

REFERENCES: ABI: I 903, 83-93; II 568, 95-109. • Barr, *Index to Biographical Fragments*, 1973: 237. • De Gubernatis, *Dizionario Biografico*, 1879. • *Encyclopaedia Britannica*, 11th edition. • *ISIS*, 1913-65: 2, 461. • Poggendorff: 2, cols. 899-900 & 3, 1235. • Sarjeant, *Geologists*, 1980: 3, 2092. • WBI. • *World Who's Who in Science*: 1520.

#### 4399. — Italian, 1856.

Studii | Sulla Mineralogia Sarda | Per | Quintino Sella | Ingegnere Delle Miniere, Direttore Del Gabinetto Mineralogico | Del R. Istituto Tecnico Di Torino | [ornate rule] | Torino | Stamperia Reale | 1856.

8°: 50 p. Estr. delle Memorie della R. accademia delle scienze di Torino ser. II, tom. XVII. VERY SCARCE.

REFERENCES: Dana's 7th (Bibliography): 80.

#### 4400. — Italian, 1856.

Quadro delle Forme Cristalline dell'Argento Rosse, del Quarzo e del Calcare. Torino, 1856.

74 p. Estratto da una memoria sulle Forme Cristalline dell'Argento Rosso letta davanti alla R. Accademia delle Scienze di Torino li 10 febbraio, 1856.

VERY SCARCE. Crystallography

**4401. German transl., 1906:** Abhandlungen | zur | Krystallographie. | Von | Quintino Sella. | [short rule] | Herausgegeben | von | F. Zambonini | in Neapel. | Mit 8 Figuren im Text. | [ornate rule] | Leipzig | Verlag von Wilhelm Engelmann | 1906.

8°:

VERY SCARCE. Translation by FERRUCCIO ZAMBONINI of ?????? (????, 18??).

**SENF, (Christian) Karl Friedrich Ferdinand.** (BORN: Möhra near Salzungen, Germany, 6 May 1810; DIED: Eisenach, Germany, 30 March 1893) *German mineralogist.*

Senft studied theology and natural science at the Universities of Jena and Göttingen. In 1835, he became professor of natural history at the Real-Gymnasium and the Forstschule in Eisenach. He was a member of the Leopoldin Academy and the Erfurt Academy.

REFERENCES: DBA: II 1217, 356-357. • *Deutsche Botanische Gesellschaft, Berlin*: 11 (1893), 44-5. • *Encyclopaedia Britannica*, 11th edition. • *Geographisches Jahrbuch*: 19 (1897), 388-9. • *Leopoldina*: 29 (1893), 108, 130-2. • Poggendorff: 2, col. 907 & 3, 1236. • Schaedler, *Biographisch Handwörterbuch*, 1891: 121. • Wagenitz, *Göttinger Biologen*, 1988: 165. • WBI.

#### 4402. — German, 1857.

Classification | Und | Beschreibung | Der | Felsarten. | Von | Dr. Ferdinand Senft, | [...3 lines of titles and memberships...] | Mit XII Tabellen. |

[rule] | Breslau, | Verlag Von Wilh. Gottl. Korn | 1857.

8°: [i]-xxxii, [1]-442 p., 12 tables (6 large, one hand-colored).

CONTENTS: [i-ii], Half title page, "Die Felsarten," verso blank.; [iii-iv], Title page, verso blank.; [v], Advertisement.; [vi], Blank.; [vii]-viii, "Vorwort."—signed Dr. Senft, 4 October 1855.; [ix]-xxxii, "Inhaltsverzeichnis."; [1], Sectional title page.; [2], Blank.; [3]-422, Text.; [423-424], Blanks.; [425]-442, "Register."

VERY SCARCE. This classification and description of feldspars was awarded a prize by the Leopoldian - Karolinian Academy in July 1855. This is perhaps more of a petrographical work than a mineralogy, but still displays the author's thorough treatment of the subject.

REFERENCES: BMC: 4, 1901. • NUC. • NYPL Catalog.

#### 4403. — German, 1868.

Die | krystallinischen Felsmengtheile | nach ihren | mineralischen Eigenschaften, | chemischen Bestandtheilen, Abarten, Umwandlungen, | Associationen und Felsbildungsweisen. | Für | Mineralogen, Geognosten und Bergleute | von | Dr. Ferdinand Senft | [...7 lines of titles and memberships...] | [rule] | Mit verschiedenen Tabellen, in den Text gedruckten Holzschnitten | und einer lithographirten Tafel. | [wavy rule] | Berlin 1868. | Verlag von Julius Springer.

8°: [i]-xl, [1]-752 p., one folded lithographed plate and numerous (some folded) tables and illustrations in the text.

CONTENTS: [Frontispiece, folding plate showing crystal drawings.]; [i-ii], Title page, verso blank.; [iii]-vi, "Vorrede."—signed Dr. Senft, September 1857.; [vii]-xl, "Inhalt."; [1], Sectional title page.; [2], Blank.; [3]-749, Text.; [750], "Druck von Eduard Weinberg in Berlin."; [751]-752, "Register | der | beschriebenen Mineralarten."

VERY SCARCE. A long and detailed study for mineralogists, geologists, and mining people, describing the crystallization of rocks. It was based upon the characteristics of minerals, their chemical components, and modifications through heat. A truly remarkable petrographical study based upon the study of the minerals that make up the rocks.

REFERENCES: BMC: 4, 1901. • *Katalog Bergakademie Freiberg*, 1879: p. 620. • NUC.

#### 4404. — German, 1869.

Lehrbuch | der | Mineralien- und Felsartenkunde | von | Dr. Ferdinand Senft, | [...4 lines of titles and memberships...] | [rule] | Mit zwei lithograph. Tafeln der Krystalle. | [rule] | Jena, | Maute's Verlag | (Hermann Dusst). | 1869.

8°: [i]-lii, [1]-656 p., 2 tables (folding, p. 32 & p. 540), 2 plates (folding, crystal drawings). PAGE SIZE: 210 x 130 mm.

CONTENTS: [i-ii], Title page, verso blank.; [iii], Dedication.; [iv], Blank.; [v]-xxviii, "Vorrede."; [xxix]-lii, "Inhaltsverzeichnis."; [1], Sectional title page, "Erste Hauptabtheilung. | Allgemeine Mineralogie."; [2], Blank.; [3]-134, Text.; [135]-512, "Zweite Hauptabtheilung. | Die Beschreibung | der | wichtigeren Mineralarten | aus |

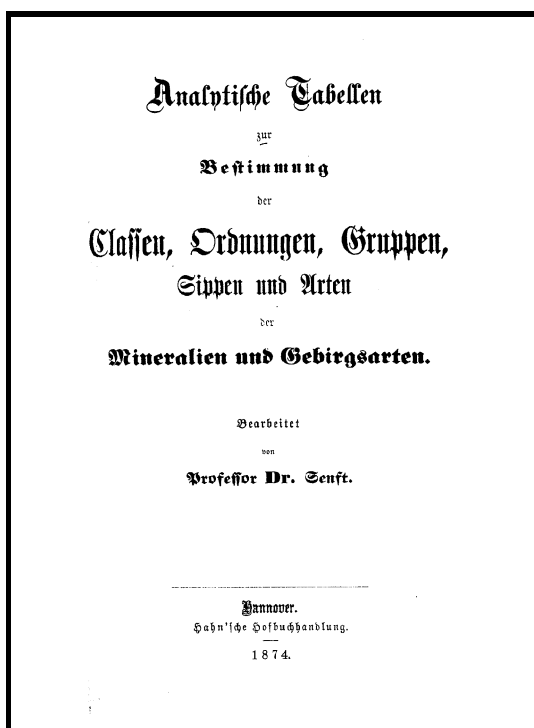


## SENF

den einzelnen Classen und Ordnungen.”; [513], Sectional title page, “Dritte Hauptabtheilung. | Die Felsarten.”; [514], Blank.; [515]-646, Text.; [647], “Anhang. | [rule] | Abbildungen von Krystallen | nebst | Erklärung derselben.”; [648], Blank.; 649-656, Text.; [At end], 2 folding plates.

VERY SCARCE. A comprehensive textbook on mineralogy, as well as an introductory text to the developing science of petrology. Divided into three major sections, the first part covers general mineralogy, the second describes the most important mineral species in a descriptive mineralogy, while the third section develops the principles of petrology. Two plates at the end show various crystal diagrams.

REFERENCES: BL: [7104.b.44.]. • BMC: 4, 1901.



ANALYTISCHE TABELLEN, 1874

### 4405. — German, 1874.

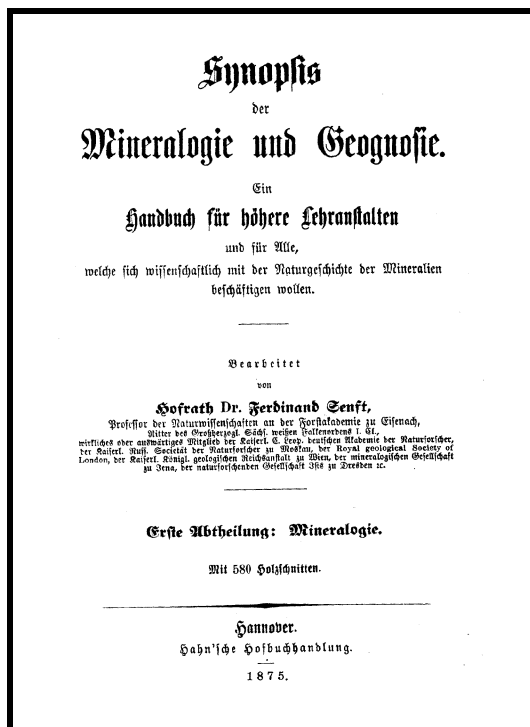
Analytische Tabellen | zur | Bestimmung | der | Classen, Ordnungen, Gruppen, | Sippen und Arten | der Mineralien und Gebirgsarten. | Bearbeitet | von | Professor Dr. Senft. | [rule] | Hannover. | Hahn'sche Hofbuchhandlung. | [short rule] | 1874.

8°:  $\pi^2$  14 2-68 77; 53 $\ell$ .; [4], [1]-102 p. PAGE SIZE: 220 x 138 mm.

CONTENTS: [2 pgs], Title page, verso blank.; [2 pgs], “Vorrede.”; [1], “Erste Abtheilung. | [wavy rule] | Bestimmungstabellen für die Mineralien.”; [2], Blank.; [3]-88, Text.; [89], “Zweite Abtheilung. | [wavy rule] | Bestimmungstabellen der Gebirgsarten.”; [90], Blank.; 91-102, Text.

VERY SCARCE. Text consists of a series of tables giving information about the minerals and rocks properties.

REFERENCES: BMC: 4, 1901.



SYNOPSIS, 1875

### 4406. — German, 1875-8.

Synopsis | der | Mineralogie und Geognosie. | Ein | Handbuch für höhere Lehranstalten | und für Alle, | welche sich wissenschaftlich mit der Naturgeschichte der Mineralien | beschäftigen wollen. | [short rule] | Bearbeitet | von | Hofrath Dr. Ferdinand Senft, | [...6 lines of title and memberships...] | [short rule] | Erste Abtheilung: Mineralogie. [-Zweite Abtheilung: Geognosie.] | Mit 580 Holzschnitten. | [tapered rule] | Hannover. | Hahn'sche Hofbuchhandlung. | [short rule] | 1875 [-1878].

2 vols. [VOL 1: 1875] 8°: [i]-xxxvi, [1]-931, [1] p., 580 illus. [VOL 2, part 1: 1876] 8°: [i]-xix, [1], [1]-708 p., 122 illus. [VOL 2, part 2: 1878] 8°: [i]-xv, [1], [709]-1332 p., illus. 123-452. PAGE SIZE: 220 x 135 mm.

CONTENTS: [Vol 1] [i-ii], Blank, verso series title page.; [iii-iv], Title page, verso “Hofbuchdruckerei der Gebr. Jäneke in Hannover.”; [v]-x, “Vorrede.”; xi-xxxvi, “Inhaltsverzeichnis.”; [1]-911, Text.; 912-914, “Anhang.”; 915-931, “Alphabetisches Register.”; [1 pg], “Druckfehler.”

[Vol 2, part 1] [i-ii], Blank, verso series title page.; [iii-iv], Title page, verso “Hofbuchdruckerei der Gebr. Jäneke in Hannover.”; [v]-vii, “Vorrede.”; [viii], Blank.; ix-xix,

REFERENCES: Dana's 7th (Bibliography): 80.

SEPI, Giorgio de.

4407. — Latin, 1678.

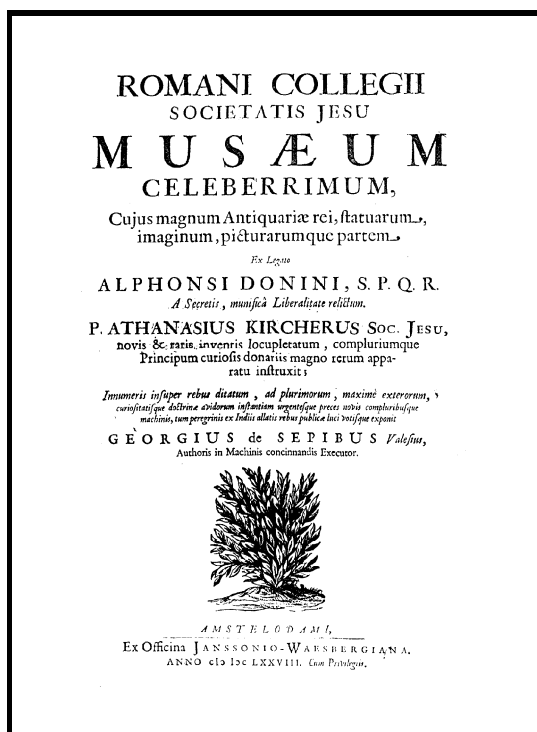
Romani Collegii | Societatus Jesu | Musæum  
| Celeberrimum, Cujus magnum Antiquariæ rei,  
statuarum., | imaginum, picturarumque partem.  
| Ex Legato | Alphonsi Donini, S.P.Q.R. |  
A Secretis, munificâ Liberalitate relictum. | P.  
Athanasius Kircerus Soc. Jesu, | novis & raris  
inventis locupletatum, compluriumque | Principum  
curiosis donariis magno rerum appa- | ratu  
instruxit; | Innumeris insuper rebus ditatum, ad  
plurimorum , maximè exterorum, | curiositatisque  
doctrinæ avidorum instantiam urgentesque preces  
novis compluribusque | machinis, tum peregrinis  
ex Indiis allatis rebus publicæ luci votisque exponit  
| Georgius de Sepibus Valesius, | Authoris in  
Machinis concinnandis Executor. | [ornament] |  
Amstelodami, | [rule] | Ex Officina Janssonio-  
Waesbergiana. | Anno cDc LXXVIII. Cum  
Privilegiis.

2°: \*4 A-I<sup>4</sup> (including engraved title page); 40ℓ.;  
[8], 1-66, [6] p., 19 engraved plates (some fold.), illus.  
Engraved title page. PAGE SIZE: 390 x ?? mm.

CONTENTS: [2 pgs], Engraved title page, verso blank.; [2 pgs], Printed title page, verso "Kircheri Tempe fecundo germinae culta, | ..."; [2 pgs], Dedication by A. Kircher to D. Joanni, dated 25 January 1678.; [1 pg], "Curioso Lectori | S.P.D. | Georgius de Sepibus."; [1 pg], "Index Contentorum | In Hoc Libro."; 1-66, Text.; [5 pgs], "Index Rerum."; [1 pg], "Index | Figurarum, | In | Musæo Kircheriano | suis locis inserendum."

PLATES: None of the plates appears to be signed. The 19 engravings consist of: The engraved title page showing the museums interior [see commentary for description]. Page 8, folding, showing characters from the Sanskrit and Chinese languages. Page 10A & 10B, folding, show details of Egyptian obelisks. Page 12A, 12B & 12C, folding, show details of Egyptian obelisks. Page 12D & 12E, not folding, show details of Egyptian obelisks. Page 37, depict various figures including the Holy Arc and a cabinet of coins(?). Page 38, illustrates various optical principals. Page 40A, show the reflection and focusing of sun beams. Page 40B & 40C, illustrate, "Horologium Hydraulicum." Page 40D, shows "Horologium Multiplex."

RARE. This finely illustrated work is the first published catalog of the celebrated Museo Kicheriano in the Jesuit Collegio Romano. The nucleus of the collection came in 1651 when the secretary of the Roman senate, Alfonso Donino [ –1651], bequeathed his collection of classical antiquities to the Collegio Romano. Kircher was appointed curator of the Donino collection, and he used the position to enlarge it with exotic items from Egypt, the Far East and the Americas. Gradually mathematical instruments, other scientific instruments, models of Egyptian obelisks, musical instruments and hydraulic organs were added. Clocks, preserved examples of birds and animals, geological specimens and works of art all soon followed. During Kircher's many travels, he routinely sought out new material to add to the growing accumulation. An



MUSÆUM, 1678

additional productive source of material for the Museo Kircheriano was the network of Jesuit missionaries scattered throughout the world. They would regularly send back to Rome example of the native flora, fauna, minerals, and everyday tools. Soon the Musæum Kircherianum as the collection became known was the finest of its kind in the world.

It was displayed in a hall in the Collegio in Rome. As material was added more space was acquired. Soon it became necessary for Kircher to hire several assistant custodians. Best known of these was Giorgio de Sepi, author of this first account of the museum. Its arrangement is in accordance with the physical outlay of the collection and it describes and illustrates Egyptian and classical artifacts, musical instruments, plants, grasses, insects, preserved animals and birds, some minerals and petrifications scientific instruments including early lighting devices. The remarkable engraved title page provides a unique view of the museum's interior at its greatest period. At intervals along the center of the long hall were free standing statuary and models of Egyptian obelisks, with shelving along one wall to accommodate pottery and other artifacts. Glass display cases held the smaller or fragile specimens along the opposite wall. Space above the cases was reserved for paintings, preserved animals, weapons, and scientific apparatus. The high ceiling was decorated with paintings of the constellations and the signs of the zodiac. A large Nile crocodile is also seen suspended, perhaps inspiring FERRANTE IMPERATO's own display. Near the hall's entrance, a human skeleton appears to greet visitors. Several visitors are depicted with Kircher himself proudly showing off the collection. Other plates in the book illustrate the Sanskrit and Chinese alphabets, Egyptian obelisks, various scientific principles, and mechanical apparatus. Text illustrations show a wide variety of animals, coins, a compass(?) and water wheel.

REFERENCES: Bedini, S.A., "Citadels of learning. The Museo Kircheriano and other seventeenth century Italian science collections" (pp. 249-67), in: Casciato, M., M.G. Ianniello, and M. Vitale, M., eds., *Enciclopedia in Roma Barocca. Athanasius Kircher e il Museo del Collegio Romano tra Wunderkammer e museo scientifico*. Venezia, Marsilio Editori, 1986. [1]-376 p., illus., biblio. • Caillet, *Manuel*, 1912: no. 5784. • *Freilich Sale Catalog*: no. 310. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 279-80. • Murray, *Museums*, 1904: 1, 106 & 3, 133. • Schupbach, *Cabinets in European Academies*, 1985: 174-5.

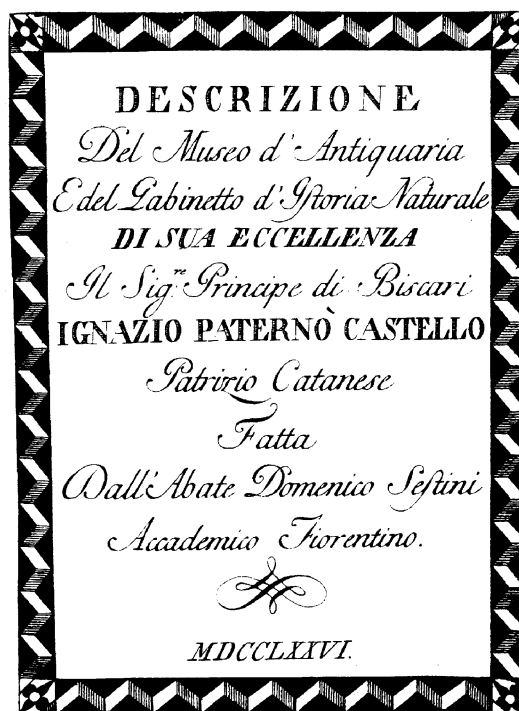
**SERRES, Felix Pisani De.**

See: **Pisani De Serres, Felix.**

**SESTINI, Domenico.** (BORN: Florence, Italy, 1750; DIED: Florence, Italy, 1832) *Italian numismatist, archaeologist & traveller.*

Sestini was librarian to Prince Biscardi, and he was instrumental in helping build the royal collections. He made an extended voyage of the orient of which 9 volumes of letters were published between 1779 and 1785. An expert on coins, he left unfinished at his death, the 14 volume manuscript, *Systema Geographicum Numismaticum*.

REFERENCES: ABI: I 908, 142-166; II 574, 90. • Benvenuti, *Dizionario degli Italiani all'Estero*, 1890. •



DESCRIZIONE DEL MUSEO, 1776

*Biographie Universelle*: 39, 171-3. • Imperatori, *Dizionario di Italiani all'Estero*, 1956. • WBI.

**4408. — Italian, 1776** [Collection catalog].

[Contained within an ornate border:] *Descrizione | Del Museo d'Antiquaria | E del Gabinetto d'Istoria Naturale | Di Sua Eccellenza | Il Sig.<sup>re</sup> Principe di Biscari | Ignazio Paterno Castello | Patrizio Catanese | Fatta | Dall'Abate Domenico Sestini | Accademico Fiorentino. | [ornament] | MDCCLXXVI.*

8°: [2], XI, 108 p., frontispiece, one plate. Engraved title page. PAGE SIZE: 220 x 140 mm.

RARE. Catalog of a royal collection formed by Prince Ignazio Paterno Castello de Biscari [1719-1786]. It contained artificial and natural items from throughout Europe, plus a remarkable suite of specimens from Sicily. It was probably the southernmost *Wunderkammer* in Europe containing scientific instruments, optical devices, suites of armor, edged weapons and firearms, costumes, textiles, minerals and figured stones, natural history specimens, an important collection of coins and medals, sculptures and antiquities. Goethe was impressed by a visit in 1787 by the amber and ivory contained in the cabinet. The preface is signed Giovanni Mariti.

There is some question as to which city this book was published. Some sources say Florence while others give Livorno.

REFERENCES: BL: [1103.c.2.(5.)]. • *Cabinets de Curiosités*: no. 43. • Gatterer, *Mineralogischen Literatur*,

1798-9: 1, 280 [wrong year]. • Murray, *Museums*, 1904: 2, 119. • NUC: 539, 407 [NS 0433784]. • Wilson, *History of Mineral Collecting*, 1994: 161.

**4409. 2nd edition, 1787:** Descrizione | Del | Museo D'Antiquaria | E Del | Gabinetto D'Istoria Naturale | Del Signor | Principe Di Biscari | Fatta Dal Sig. | Abate Domenico Sestini | Accademico Fiorentio. | Nouva Edizione | Riveduta, Corretta, Ed Accresciuta | Dall' Autore. | [ornament] | Livorno 1787. | Per Carlo Giorgi Editore, ed Impressore. | [ornate rule] | Con Approvazione. 8°: xx, 53 p., frontispiece (portrait of Prince Biscari), 3 engraved plates (2 folding).

PLATES: The frontispiece portrait of Biscari is signed: Catanae Antonius Zacco inv. et incidit. Plate [4] is a floor plan of the museum.

RARE. Edited by C. Giorgi. This revised edition, printed in the same year as the Prince's death, contains a new preface describing the interior of the palace and a detailed plan showing the layout of the collections within the galleries.

Goethe provides an interesting first-hand account of a visit to the museum in his *Italian Journey*. After visiting the main gallery with its collection of marble and bronze statues and vases, he was shown the coin collection, which was usually off limits due to theft. Then Goethe was escorted to the inner chambers to view a glass cabinet containing the collection of amber. Contained there were vessels, cups, urns and other things carved from it. In addition, there were also some exceptional carved ivories.

REFERENCES: BL: [665.e.27]. • *Cabinets de Curiosités*: no. 44. • Murray, *Museums*, 1904: 2, 119. • NUC: [no copy listed]. • *Wunderkammer to Museum*: no. 36.

**SETTALA, Lodovico.** (BORN: 1552?; DIED: 1633) *Italian physician.*

REFERENCES: ABI: I 908, 257-297. • Capparoni, *Profilii Bio-Bibliografici*, 1928-32. • Jöcher, *Gelehrten-Lexikon, Supplement*. • Mieli, *Gli Scienziati Italiani*, 1921. • Poggendorff: 2, col. 913. • Rota Ghibaudi, S., *Ricerche su Ludovico Settala; biografia, bibliografia, iconografia e documenti*. Firenze, Sansoni, 1959, 200 p., ports., facsim. [Published as: *Biblioteca Bibliografica Italica*, no. 18; limited to 666 copies printed.]. • WBI.

*Museum Septalianum*: Manfredi Septalæ ... industrioso labore constructum, Pauli Mariæ Terzagi ... (Dertonæ, 1664, and other editions).

See: **Terzago, Paolo Maria.**

Ioannis Quirini de Testaceis Fossilibus Musæi Septalliani ... (Venetiis, 1676).

See: **Quirini, Giovanni.**

**SEVERGIN, Vasilii Mikhailovich.** (BORN: St. Petersburg, Russia, 19 September 1765; DIED: St. Petersburg, Russia, 29 November 1826) *Russian mineralogist, geologist, chemist & physicist.*

Son of a court musician, Severgin was admitted to the private Gymnasium of the St. Petersburg Academy of Sciences in 1776. He matriculated at the Academy's University in 1784 choosing mineralogy as his speciality. In 1785, he travelled to Göttingen to study under J.F. GMELIN. There he became involved in the controversy between the neptunists and the plutonists. Upon returning to St. Petersburg in 1789, he was appointed an adjunct in the department of mineralogy of the Academy of Science. In that post, Severgin began a long and influential career in the teaching of science in Russia generally and especially mineralogy. He examined minerals from a chemical basis which followed Lavoisier's theories. This was sustained by his numerous publications, which appeared throughout his lifetime. Besides Severgin's mineralogical writings, he also published translations of European works on metallurgy, chemistry and physics. In 1804, he founded



SEVERGIN

the *Tekhnologicheskii Zhurnal* (Technological Journal), which he also edited until 1824. Severgin was also a founding member of the Mineralogical Society of St. Petersburg.

REFERENCES: Barsanov, *Istorii Razvitiia Russkoi Mineralogii*, 1950. • Barsanov, *Severgin i Mineralogia*, 1949. • Carver, V.M. Severgin, 1977. • DSB: 12, 329-30 [by G.D. Kurochkin]. • *Great Soviet Encyclopedia*: 23, 392 [by N.A. Voskresenskaia]. • Molliavko, *Geologi Biograficheskii*, 1985: p. 238-9. • Poggendorff: 2, cols. 913-4. • Sarjeant, *Geologists*, Suppl. 1, 1986: 2, 770. • Sedletskii, I.D., Акад. В.М. Севергин и учение о парагенезисе минералов [Acad. V.M. Severgin and the study of the paragenesis of minerals], *Vestn. As USSR*, 1 (1948). • Sedletskii, I.D., "Приоритет русского ученого В.М. Севергина в учении о парагенезисе минералов" [Russian scientific priority of V.M. Severgin in the study of the paragenesis of minerals], *Zap. Rostov State Univ.*, 11 (1948), no. 6. • Shafranovskii, I.I. and A.V. Nemilova, Акад. В.М. Севергин, и его роль в истории русской минералогии [Acad. V.M. Severgin, and his role in the history of Russian mineralogy], *Priroda* [Nature], 1947, no. 3. • Sokolovskaia, *400 Biografii Uchenykh*, 1988: p. 231. • Zvorykin, *Biograficheskii Slovar*, 1958: 2, 203-4, portrait.

Начальная основа естественной истории, содержащая царства животных, произрастаний и ископаемых. (2 vols., St. Petersburg, 1791).

See: **Kirwan, Richard.**

Минералогические, географические и другие смешанные известия о Алтайских горах, принадлежащих к российскому владению. Изданные И.М. Ренованом ... Василий Севергин ... (St. Petersburg, 1792).

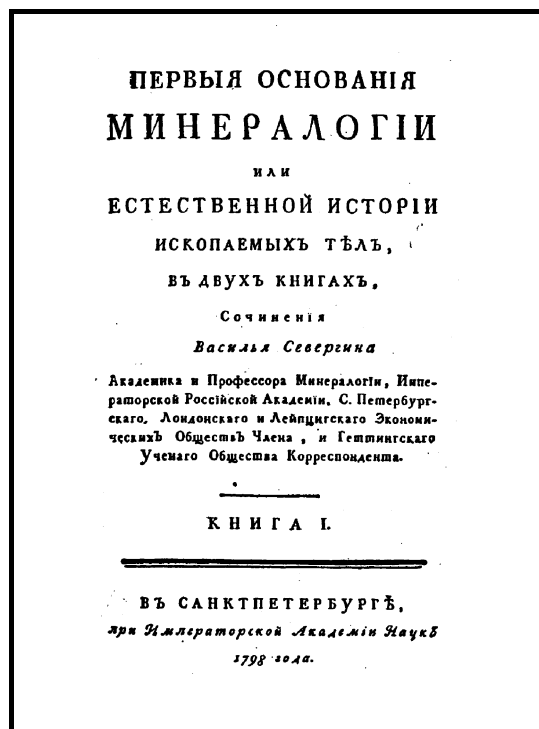
See: **Renovantz, Hans Michael.**

**4410. — Russian, 1798.**

Первая Основа | Минералогии | Или | Естественной Истории | Ископаемых Телъ, | В Двух Книгахъ. | Сочинения | Василія Севергина, | [...5 lines of titles and memberships...] | [rule] | Книга I. [-II.] | [double rule] | Въ Санктпетербургѣ, | при Императорской Академии Наукъ | 1798 года.

[TRANSLITERATED TITLE:]

Pervyia Osiovaia | Mineralogii | Ili | Estestvennoe Istorii | Iskopaemykh Tel, | V Dvukh



PERVYIA OSIOVANIIA MINERALOGII, 1798

Knigakh. | Sochineniia | Vasilgia Severgina, | [...5 lines of titles and memberships...] | [rule] | Kniga I. [-II.] | [double rule] | V Sanktpeterburge, | pri Imperamorskoĭ Akademii Nauk | 1798 goda.

2 parts. [Part 1] 8°: [2], vi, 498, [2] p.; [Part 2] 8°: xvi, 437, xxxi, [1] p.

RARE. Based on Lavoisier's new chemistry, this work served as Russia's chief advanced mineralogy text. It was published in an edition of 1200 copies and became Russia's chief textbook for the next 30 years. The book abounded in information about the chemical characters of rocks and minerals, but because of the embryonic nature of chemical analysis, the nature and quality of the entries was uneven. To promote chemical mineralogy, Severgin's introduction included a summary description of the techniques, instruments and objectives of the chemical method.

Kurochkin writes that Severgin's *Foundations of Mineralogy* was "the first textbook written in Russian on the subject. Besides describing minerals and rocks, Severgin classified petrifications as "simple" or "complex." Among the former were marble, jasper, and flint (quartz), which lack foreign particles. He gave detailed descriptions of the physical and chemical properties of minerals, developing "wet" methods of analysis as well as methods using the blowpipe." Also in this work, Severgin was the first to formerly recognize what he called "contiguity of minerals," but what is today called mineral paragenesis.

REFERENCES: BL: [no copy listed]. • Carver, V.M.

Severgin, 1977: pp. 190-5. • DSB: 12, 329 [by G.D. Kurochkin]. • Grigorev & Shafranovskii, *Russkie Mineralogi*, 1949: pp. 86-97. • Slavonic Collection: 24, 199. • Sopikov, *Essay in Russian Bibliography*, 1904-8: no. 6222. • *Svodnyi Katalog Russkoĭ Knigi*: no. 6392.

#### 4411. — Russian, 1800.

Способ испытывать минеральныя воды. Сочиненный, поновейшим о сем предмете навлуденіям, трудами Василія Севергина, академика и надворнаго советника; Государственной Медицинской коллегіи почетнаго члена; Имп. Россійской академіи и С.П. бургскаго Вольнаго экономическаго общества члена; Лондонскаго и Лейпцигскаго экономическаго общества, и Минералогическаго общества в Иене почетнаго члена; Геттингскаго ученаго общества корреспондента. С. Петербург, тип. Гос. Мед. Коллегіи, 1800.

[TRANSLITERATED TITLE:]

Sposov ispytyvat' mineral'nyia vody. Sochinennyĭ, ponoveĭshim o sem predmete navludeniiam, trudami Vasil'ia Severgina, akademika i nadvornago sovetnika; Gosudarstvnoĭ Meditsinskoĭ kollegii pochetskago chlena; Imp. Rossiĭskoĭ akademii i S.P. burgskago Vol'nago ekonomicheskago obshchestva chlena; Londonskago i Leĭptsigskago ekonomicheskago obshchestva, i Mineralogicheskago obshchestva v Iene pochetskago chlena; Gettingskago uchenago obshchestva korrespondenta. S. Peterburg: tip. Gos. Med. Kollegii, 1800.

8°: 148 p., one folding table. RARE.

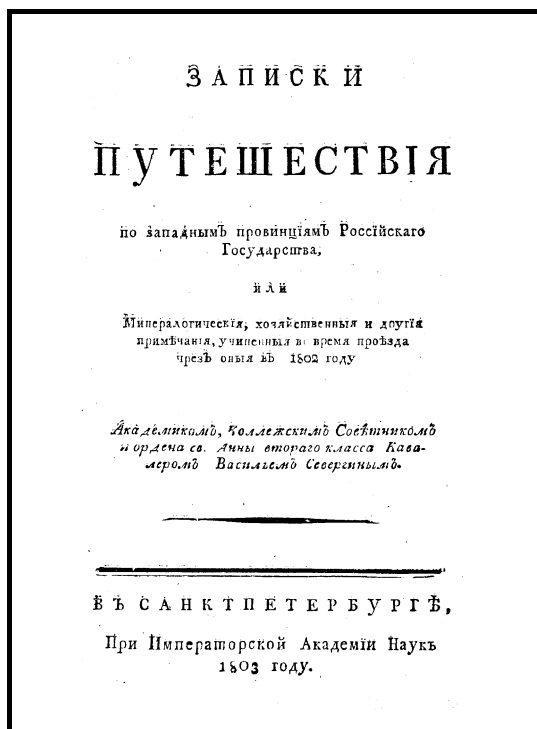
REFERENCES: BL: [7470.bbb.50]. • Grigorev & Shafranovskii, *Russkie Mineralogi*, 1949: pp. 86-97. • Sopikov, *Essay in Russian Bibliography*, 1904-8: no. 11228. • *Svodnyi Katalog Russkoĭ Knigi*: no. 6393.

#### 4412. — Russian, 1803-4.

Записки | Путешествія | по западнымъ провинціямъ Россійскаго | Государства, | или | Минералогическія, хозяйственныя и другія | примѣчанія, учиненныя во время проѣзда | чрезъ оныя въ 1802 году | Академикомъ, Коллежскимъ Совѣщикомъ | и Ордена св. Анны въораго класса Кавалеромъ Васильемъ Севергинымъ. | [tapered rule] | [double rule] | Въ СанктпетербургѢ, | При Императорской Академіи Наукъ | 1803 году.

[TITLE PAGE OF PART 2 READS:]

Продолженіе | Записки Путешествія | по западнымъ провинціямъ | Россійскаго Государства; | или | Минералогическія, Технологическія и | другія примѣчанія, учиненныя во время | проѣзда чрезъ оныя въ 1803 году. | Академикомъ, Коллежскимъ Совѣщикомъ и | Ордена св. Анны въора-



ZAPISKI, 1803

аго класса Кавалеромъ | Васильемъ Севергинымъ. | [ornate rule] Въ Санктпетербургѣ, | при Императорской Академіи Наукъ | 1804 году.

[TRANSLITERATED TITLE, PART 1:]

Zapiski | Puteskhestviia | po zapadnym provintsiiam Rossiiskago | Gosudarshva, | ili | Mineralogicheskii, khoziaishvennyia i drugia | primechaniia, uchinennia vo vremia proezda | chrez onia v 1802 godu | Akademikom, Kollezhskim Soveshbikom | i Ordena sv. Anny vshorago klassa Kaval' erom Vasil'em Severginym. | [tapered rule] [double rule] V Sanktpeterburge, | Pri Imperashorskoĭ Akademii Nauk | 1803 godu.

[TRANSLITERATED TITLE, PART 2:]

Prodolzhenie | Zapiski Puteskhestviia | po zapadnym provintsiiam | Rossiiskago Gosudarshva; | ili | Mineralogicheskii, Tekhnologicheskii i | drugia | primechaniia, uchinennia vo vremia | proezda chrez onia v 1803 godu. | Akademikom, Kollezhskim Soveshbikom i | Ordena sv. Anny vshorago klassa Kaval' erom Vasil'em Severginym. | [ornate rule] [double rule] V Sanktpeterburge, | pri Imperashorskoĭ Akademii Nauk | 1804 godu.

2 vols. [VOL 1: 1803] 8°: π<sup>4</sup> 1-148; 116ℓ.; [8], [1]-224 p. [VOL 2: 1804] 8°: π<sup>4</sup> 1-108 114; 88ℓ.; [8],

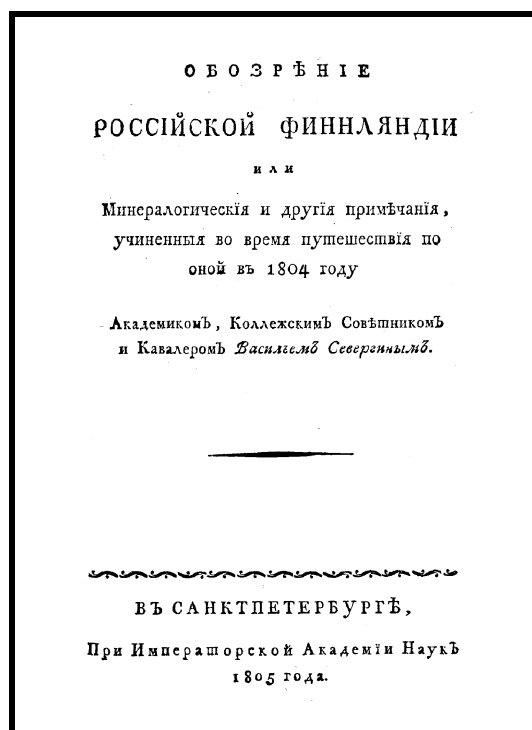
[1]-168 p. PAGE SIZE: 195 x 110 mm.

CONTENTS: [Vol 1] [2 pgs], Title page, verso blank; [1 pg], Dedication.; [1 pg], Blank.; [2 pgs], "Предисловіе [префаце]."; [1 pg], "Погрѣшности."; [1 pg], Blank.; [1]-224, Text.

[Vol 2] [2 pgs], Title page, verso blank.; [1 pg], Dedication.; [1 pg], Blank.; [2 pgs], "Предисловіе [=preface].; [1 pg], "Погрѣшности."; [1 pg], Blank.; [1]-168, Text.

RARE. At the beginning of the nineteenth century, Severgin undertook several journeys through European Russia. In 1802, Severgin made several extended trips to the Urals. In his *Notes of a Journey through the Western Provinces of the Russian State* he describes the mineral resources he encountered, including the minerals, mines, and refining and fabrication methods. He also describes other potential mineral deposits. The work was successful and in 1803 Severgin continued his travels, which were published as a *Continuation* and second volume of this book.

REFERENCES: BL: [1426.g.7.(1.)]. • Grigorev & Shafranovskii, *Russkie Mineralogi*, 1949: pp. 86-97. • Slavonic Collection: 35, 546.



OBOZRENIE ROSSIISKOI, 1805

4413. — Russian, 1805.

Обозрѣніе | Россійской Финляндіи | или | Минералогическія и другія примѣчанія, | учиненныя во время пушешесствія по | оной въ 1804 году | Академикомъ, Коллешкимъ Совѣшникомъ | и Кавалеромъ Василиемъ Севергинымъ. | [tapered rule] | [ornate rule] |

## SEVERGIN

Въ Санктпетербургѣ, | При Императорскоѣ Академіи Наукъ | 1805 года.

[TRANSLITERATED TITLE:]

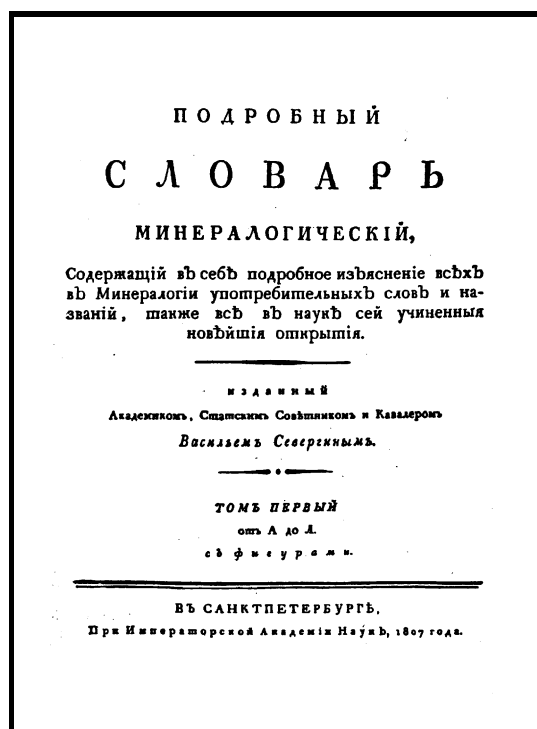
Obozrenie | Rossiiskoi Finnliandii | ili | Mineralogicheskii i drugii primechanii, | uchinennia vo vremia pushesheshvii po | onoï v 1804 godu | Akademikom, Kolleshskim Soveshnikom | i Kavalerom Vasil'em Severginym. | [tapered rule] | [ornate rule] | V Sanktpeterburge, | Pri Imperashorskoe Akademii Nauk | 1805 goda.

8°: π<sup>4</sup> 1-88 93; 71ℓ.; [8], [1]-133, [1] p., 4 folding tables.

CONTENTS: [2 pgs], Title page, verso blank.; [1 pg], Dedication.; [1 pg], Blank.; [4 pgs], "Предисловіе (=preface)."; [1]-133, "Вступленіе." [=text].; [1 pg], Blank.; [At end], 4 folding tables.

RARE. This work brings together and systematizes data on the mineral resources of Finland, then a territory of the Russian empire. The success of the author's description of the western provinces prompted his survey in 1804 of Russia Finland and Estonia. His observations are preserved in this volume that highlight the minerals, mines and manufacturing of the region.

REFERENCES: BL: [1426.g.7.(2.)]. • Grigorev & Shafranovskii, *Russkie Mineralogi*, 1949: pp. 86-97.



PODROBNYA SLOVAIA MINERALOGICHESKIIA, 1807

### 4414. — Russian, 1807.

Подробный | Словарь | Минералогическій, | Содержащій въ себѣ подробное изъясненіе

всѣхъ | въ Минералогіи употребительныхъ словъ и на- | званій, также всѣ въ наукѣ сей учиненныя | новѣйшія открытія. | [tapered rule] | Изданный | Академикомъ, Спашскимъ Совѣшникомъ и Кавалеромъ | Васильемъ Севергинымъ. | [ornate rule] | Томъ Первый | ошъ А до Л. | съ Фигурами. | [double rule] | Въ Санктпетербургѣ, | При Императорской Академіи Наукъ, 1807 года.

[TRANSLITERATED TITLE:]

Podrobnŭi | Slovar' | Mineralogitskheskii, | Soderzhashchii v sebe podrobnoe iz'iasnenie vsekh | v Mineralogii uposhrebishel'nykh slov i na- | zvaniï, shakzhe vse v nauke sei uchnnennia | noveishiia oshkryshia. | [tapered rule] | Izdannyi | Akademikom, Sshashskim Soveshnikom i Kavalerom | Vasil'em Severginym. | [ornate rule] | Tom Pervyi | osh A do L. | s Figyrami. | [double rule] | B Sanktpeterburge, | Pri Imperashorskoï Akademii Nauk, 1807 goda.

2 vols. [VOL 1] 4°: lii, 668 p. [VOL 2] 4°: xv, 615, 68 p.

RARE. *Detailed Mineralogical Dictionary* is one of Severgin's best linguistic contributions to mineralogical science. But it was more than a mere dictionary. It was an alphabetically arranged mineralogical handbook listing all known minerals, their localities in Russia and elsewhere, their agricultural and industrial uses, and their identifying external, crystallographic and chemical features. It was also the first through account of crystallographic analysis in Russia recounting HAÛY's methods. In it Severgin emphasized the determinative value of crystalline forms, translated lengthy sections from HAÛY's *Traité*, described the techniques of angular measurements and reproduced HAÛY's complex charts of angular variations and crystalline forms.

In this two volume mineralogical dictionary Tome I covers A to L and Tome II, M to Z.

REFERENCES: BL: [726.l.11]. • Carver, V.M. *Severgin*, 1977: pp. 183 & 201. • Grigorev & Shafranovskii, *Russkie Mineralogi*, 1949: pp. 86-97. • Slavonic Collection: 24, 199.

### 4415. — Russian, 1809.

Опытъ | Минералогическаго | Землеописанія | Россійскаго Государства, | Изданный | шрудями Спашскаго Совѣшника, | Академика и Кавалера | Василья Севергина. | [ornate rule] | Часмъ вморая. | [tapered rule] | С. Петербургъ, | Печашано при Императорской Академіи | Наукъ 1809 года.

[TRANSLITERATED TITLE:]

Opyt | Mineralogicheskago | Zemleopisaniia | Rossiiskago Gosudarstva, | Izdannyi | shrudami Sshashskago Soveshnika, | Akademika i Kavalera | Vasil'ia Severgina. | [ornate rule] | Chasm' vmoraia. | [tapered rule] | S. Peterburg, | Pechashano pri

Imperashorskoĭ Akademii | Nauk 1809 goda.

2 parts. [Part 1:] 8°: xviii, 262 p.; [Part 2:] 8°: iv, 240 p.

RARE. Kurochkin writes "The mineral collections of the Institute of Mines, the Free Economics Society, and the many St. Petersburg amateur collectors, as well as his personal collection, served Severgin as material for ... *An Attempt at the Mineralogical Description of the Territory of the Russian State*. The first volume, a physical-geographical survey, describes structures and lithology as well as the hydrographic network. The second volume deals with the geographical distribution of minerals."

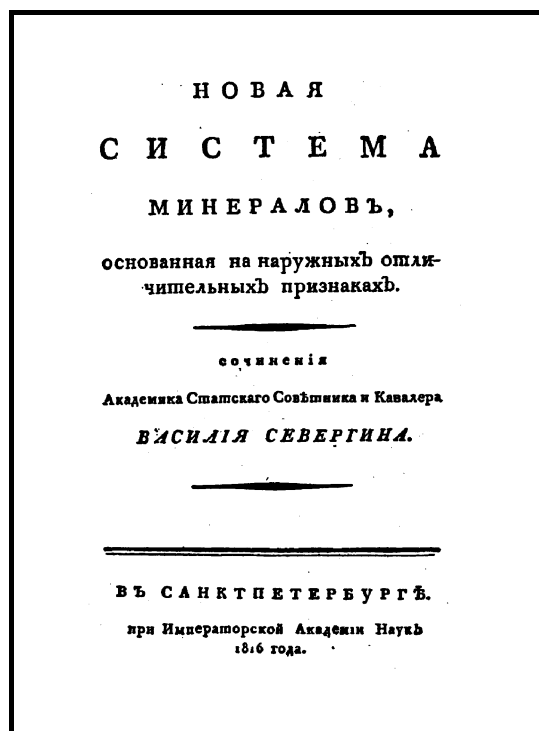
REFERENCES: BL: [1255.c.17-18.]. • Carver, V.M. *Severgin*, 1977: p. 221. • DSB: 12, 329-30. • Grigorev & Shafranovskii, *Russkie Mineralogi*, 1949: pp. 86-97. • Slavonic Collection: 35, 546.

[tapered rule] | Sochineniia | Akademika Sshashskago Soveshnika i Kavallera | Vasil'ia Severgina. | [tapered rule] | [double rule] | V Sanktpeterburge. | pri Imperashorskoĭ Akademii Nauk | 1816 goda.

8°: xiv, 306 p.

RARE. This is Severgin's systematic treatment of mineralogy, following primarily WERNER, but incorporating the methods of HAÜY. It lists all Latin, German, and French as well as Russian synonyms and represented his chief contributions to the standardization of mineralogical nomenclature in Russia.

REFERENCES: BL: [no copy listed]. • Carver, V.M. *Severgin*, 1977: p. 182. • Grigorev & Shafranovskii, *Russkie Mineralogi*, 1949: pp. 86-97.



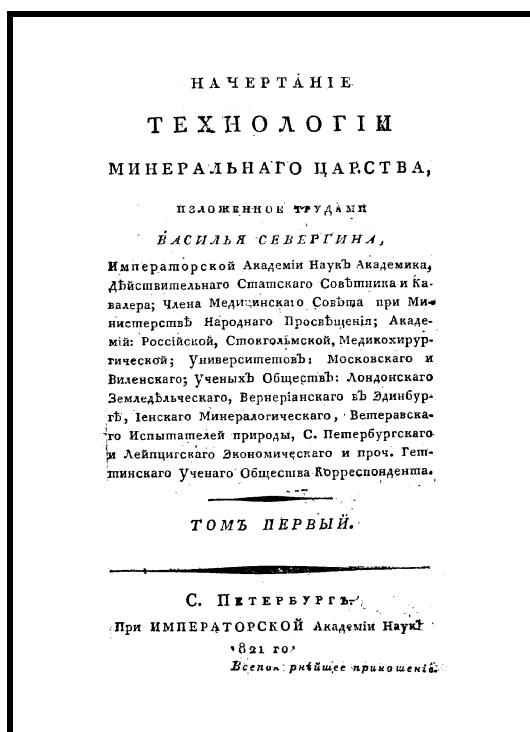
NOVAYA SISTEMA MINERALOVIA, 1816

4416. — Russian, 1816.

Новая | Система | Минераловъ, | Основанная На Наружныхъ Опличительныхъ Признакахъ. | [tapered rule] | Сочиненія | Академика Сшашскаго Совѣтника и Кавалера | Василия Севергина. | [tapered rule] | [double rule] | Въ Санктпетербургѣ. | при Императорской Академіи Наукъ | 1816 года.

[TRANSLITERATED TITLE:]

Novaya | Sistema | Mineralov, | Osnovannaia Na Naruzhnykh Oshli- | chishel'nykh Priznakakh. |



NACHERTANIE TEKHNologii MINERALANAGO, 1821

4417. — Russian, 1821-2.

Начертаніе | Технологіи | Минеральнаго Царства, | Изложенное Трудамъ | Василия Севергина, | [...12 lines of titles and memberships...] | [tapered rule] | Томъ Первый. | [tapered rule] | С. Петербургъ. | При Императорской Академіи Наукъ | 1821 года.

[TRANSLITERATED TITLE:]

Nachertanie | Tekhnologii | Mineral'nago Tsarstva, | Izlozhennoe Trudamn | Vasil'ia Severgina, | [...12 lines of titles and memberships...] | [tapered rule] |



SEVRIN

Tom Pervyi. | [tapered rule] | S. Petersburg. | Pri Imperatorskoĭ Akademii Nauk | 1821 goda.

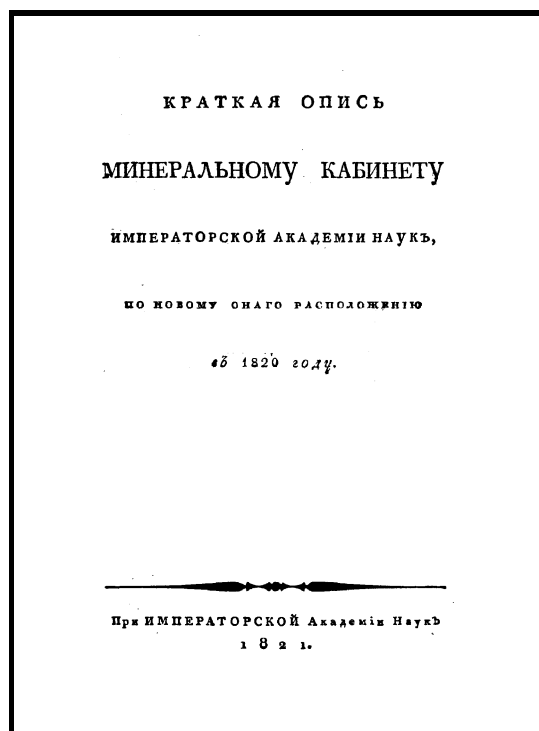
2 vols. [VOL 1: 1821] 8°:  $\pi^8$  2<sup>10</sup> 1-27<sup>8</sup> 28<sup>10</sup>; 245ℓ.; [i]-[xxxiv], [xxxiii]-xxxvi, [1]-437, [1], 13, [1] p. (pages xxxiii-xxxiv are repeated).; [VOL 2: 1822] 8°:  $\pi^2$  1-17<sup>8</sup> 18<sup>10</sup>; 148ℓ.; [4], [1]-291, [1] p. PAGE SIZE: 204 x 122 mm.

CONTENTS: [Vol 1] [i-ii], Title page, verso "Печашано ошъ Императорской ..."; [iii], Dedication.; [iv], Blank.; [v]-[vi], "Предъувѣдомленіе."; [vii]-xxxiii, "Ориктогностическое Распредѣленіе..." [=overview of Werner's mineralogical system].; [xxxiv], Blank.; [xxxiii]-xxxvi, "Минералы | Употребительные Въ Овщежитіи."; [1]-437, Text.; [1 pg], Blank.; [13 pgs], "Азбучная Роспись Пербая."; [1 pg], Blank.

[2 pgs], Title page, verso "Печашано ошъ Императорской ..."; [2 pgs], "Минералы | употребушелъные Въ Общежушіу."; [1]-282, Text.; [283]-289, "Азвучная Роспись Первая."; 290-291, "Азвучная Роспись Вторая."; [1 pg], Blank.

RARE. This text book was attractive to a broad audience. It was practical in nature describing mineralogy in the broadest sense an including advice on locating mineralized deposits and descriptions of veins, etc. To insure publication an eclectic group including educators, statesmen, military personnel, mining officials and members of The Free Economic Society agreed to purchase copies prior to publication.

REFERENCES: BL: [no copy listed]. • Carver, V.M. *Severgin*, 1977: p. 221. • Grigorev & Shafranovskii, *Russkie Mineralogi*, 1949: pp. 86-97. • Slavonic Collection: 24, 199.



KRATKAIA OPISIA MINERALINOMU, 1821

4418. — Russian, 1821 [Collection catalog].

Краткая Опись | Минеральному Кабинету | Императорской Академіи Наукъ, | По Новому Онаго Расположенію | бъ 1820 году. | [ornate rule] | При Императорской Академіи Наукъ | 1821.

[TRANSLITERATED TITLE:]

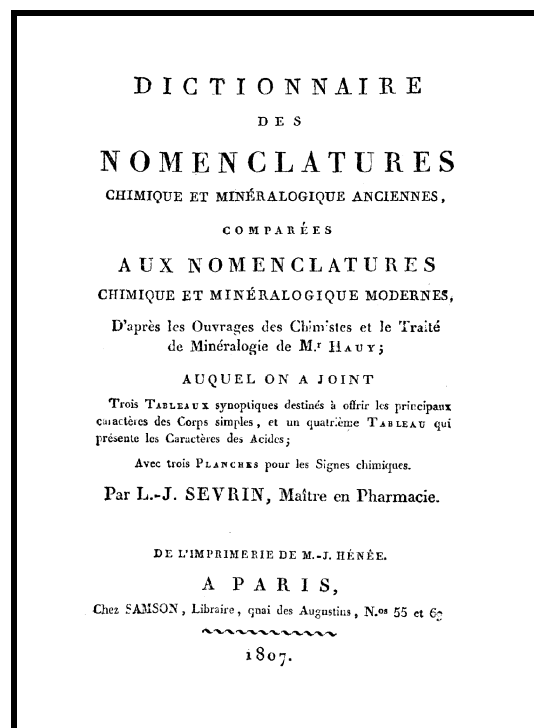
Kratkaia Opis' | Mineral'nomu Kabinetu | Imperatorskoĭ Akademii Nauk, | Po Novomu Onago Raspolozheniiu | b 1820 godu. | [ornate rule] | Pri Imperatorskoĭ Akademii Nauk | 1821.

8°:  $\pi^8$  2<sup>8</sup>; 16ℓ.; [i]-viii, [1]-24 p. PAGE SIZE: 238 x 150 mm.

CONTENTS: [i-ii], Title page, verso blank.; [iii]-viii, "Предъувѣдомленіе," signed "B.C." [=Vasilii Severgin].; [1]-24, Text.

VERY RARE. Published anonymously, but the preliminary material is signed "V.S." which is almost certainly an attribution to V. Severgin. An early collection catalog of the mineral cabinet of the Russian Imperial Academy of Science with descriptions of the latest discoveries to 1820. There are 92 numbered specimens described.

REFERENCES: BL: [no copy listed]. • Grigorev & Shafranovskii, *Russkie Mineralogi*, 1949: pp. 86-97.



DICTIONNAIRE, 1807

SEVRIN, L.-J.

**4419. — French, 1807.**

Dictionnaire | des | Nomenclatures | chimique et minéralogique anciennes, | comparées | aux nomenclatures | chimique et minéralogique modernes, | D'après les Ouvrages des Chimistes et le Traité | de Minéralogie de M.<sup>r</sup> Haüy; | auquel on a joint | Trois Tableaux synoptiques destinés à offrir les principaux | caractères des Corps simples, et un quatrième Tableaux qui | présente les Caractères des Acides; | Avec trois Planches pour les Signes chimiques. | Par L.-J. Sevrin, Maître en Pharmacie. | De l'Imprimerie de M.J. Hénée/ | A Paris, | Chez Samson, Libraire, quai des Augustins, N.<sup>os</sup> 55 et 69. | [rule] | 1807.

8°:  $\pi^2$  1-14<sup>8</sup> 15<sup>4</sup> (\$2 signed); 168 $\ell$ .; [4], [i]-xxx, [31]-232 p. Pages xiii, 82 and 84 misprinted as xii, 2 and 64. PAGE SIZE: 218 x 128 mm.

CONTENTS: [2 pgs], Half title page, "Dictionnaire | des | Nomenclatures | Chimiques et Minéralogiques," verso "Livres qui se trouvent chez Samson, ..."; [2 pgs], Title page, verso certificate signed by Samson.; [i]-iv, "Discours Préliminaire."; [v]-xx, "Préface de la Nomenclature Chimique."; [xxi]-xxix, "Préface des Caractères Chimiques."; xxx, "Errata."; [31]-108, Text, being a dictionary of chemical nomenclature.; [109]-144, "Nomenclature Française et Latine."; [145]-169, "De la Minéralogie. | Première Partie. Nomenclature Ancienne et Moderne."; [170]-231, "De la Minéralogie. Seconde Partie. Nomenclature Moderne et Ancienne."; 232, "Nota."

VERY SCARCE. Although largely unknown, this is a valuable dictionary of chemical and mineralogical nomenclature. It was written at a time when vast changes were being proposed in mineralogical and chemical naming conventions. The chemistry text is derived from the latest advances in chemistry and consists of three principle sections: old names versus modern, modern names versus old and modern names versus Latin names. The section on mineralogical nomenclature has two sections corresponding to the first two of the chemistry section.

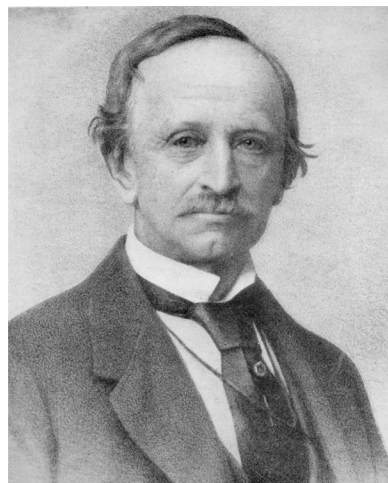
REFERENCES: Bolton, *Bibliography of Chemistry*, 1893: 76. • Cole, *Chemical Literature*, 1988: no. 1204. • Crosland, *Language of Chemistry*, 1962: 253, note 66. • LKG: VII 8. • NUC: [NS 0441416]. • Ward & Carozzi, *Geology Emerging*, 1984: no. 2039.

**SEYSENEGG, Gustav Tschermak Von.**

See: Tschermak-seysenegg, Gustav Von.

**SHEPARD, Charles Upham.** (BORN: Little Compton, Rhode Island, U.S.A., 29 June 1804; DIED: Charleston, South Carolina, U.S.A., 1 May 1886) *American mineralogist.*

Shepard was born the son of a congregational minister. He studied at Brown University in 1820-21, and in 1824 graduated from Amherst. He then studied for a while with Thomas Nuttall [1786-1859] before becoming assistant to Benjamin Silliman [1779-1864] at Yale. Shepard was a lecturer on natural history at Yale from 1830 to 1847. He also became a professor of chemistry and natural history at Amherst in 1835, a post he held until 1852. From 1834 to 1861, Shepard was professor of chemistry at the Medical College of Charleston, South



SHEPARD

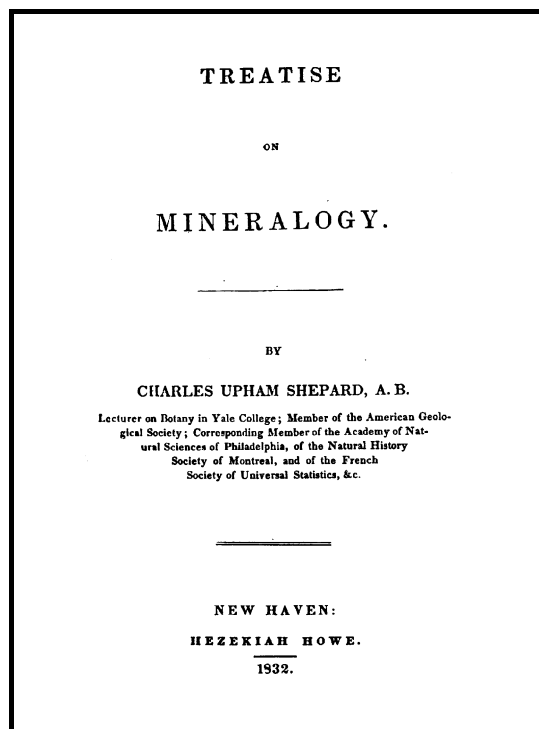
Carolina. Shepard was a member of the American Academy of Arts and Sciences, the societies of natural science at St. Petersburg and Vienna, as well as the Royal Society of Göttingen. His publications were in mineralogy, chemistry and geology, with most of his papers being published in the *American Journal of Science*. Much manuscript material is in the Amherst College library. At the age of fifteen, Shepard began to collect minerals and meteorites. He carried this collection first to Brown University and then to Amherst. There he became a student of Amos Eaton [1776-1842], who inspired Shepard to visit various mineral localities. Subsequently, he made expeditions throughout the U.S. east of Mississippi and discovered a number of new species. Collecting of pink and green tourmalines from Paris, Maine and rutile from Georgia made it possible for him to build a large and important mineral collection through exchanges with European collections. Although in 1881, a major portion of the collection was destroyed in a fire at Amherst, at the time of his death 5 years later, Shepard's collection of minerals was said to be the largest in America, and certainly one of the best in the world. It was donated to Amherst by his son.

REFERENCES: ABA: I 1456, 239-240, 244-247. • *American Chemists & Chemical Engineers*: 2, 253-4 [by R.C. Sheridan]. • *American Journal of Science*: 3rd Series, 31 (1886), 482-3. • Barr, *Index to Biographical Fragments*, 1973: 239. • Cleavelly, *World Palaeontological Collections*, 1983: 263. • DAB: 17, 71-2 [by F.B. Lommis]. • Daniels, *American Science in the Age of Jackson*, 1968. • Elliott, *Biographical Index*, 1990: 210. • Elliott, *Biographical Dictionary*, 1979: 234-5. • Poggendorff: 2, cols. 919-20 & 1441, 3, 1242 & 4, 1392. • *Popular Science Monthly*: 47 (1895), 548-53, portrait. • *Proceedings of the American Academy of Arts & Sciences*: 21 (1886), 535-7. • Sarjeant, *Geologists*, Suppl. 2, 1995: 2, 1074. • WBI. • Wilson, *Benjamin Silliman and his circle*, 1979. • *World Who's Who in Science*: 1535. • Youmans, *Pioneers of Science in America*, 1896: 419-27.

**4420. — English, 1832-5 [First edition].**

Treatise | on | Mineralogy. | [rule] | By | Charles Upham Shepard, A.B. | [...5 lines of titles and memberships...] | [double rule] | New Haven: | Hezekiah Howe. | [rule] | 1832.

2 parts in 3 vols. [Part 1] 8°: [i]-xix, [1] errata, [1]-256 p., illus.; [Part 2, vol. 1] 8°: [i]-xlv, [1]-300 p.,



TREATISE ON MINERALOGY, 1832

271 illus.; [Part 2, vol. 2] 8°: [1]-331, [1] blank p., 228 illus.

CONTENTS: [Part 1: 1832] [i-ii], Title page, verso copyright notice.; [iii]-xi, "Preface."— signed Charles U. Shepard, 1 June 1832.; [xii], Blank.; [xiii]-xix, "Table Of Contents.;" [1 page], "Errata.;" [1]-256, Text.

[Part 2, vol. 1: 1835] [i-ii], Title page, verso copyright notice.; [iii]-iv, Dedication to Benjamin Silliman, signed Charles U. Shepard, May 1835.; [v]-xvi, "Preface.;" xvii, "List Of The Principal Works Consulted In The Preparation Of This Treatise.;" [xviii], Breithaupt's scale of hardness and errata.; xix-xliv, "Tabular View | Of The | Classes, Orders, Genera And Species | Of The Natural System.;" [1]-300, Text.

[Part 2, vol. 2: 1835] [1-2], Title page, verso copyright notice.; [3]-294, Text.; 295-316, "Chemical Arrangement | Of The | Species.;" 317-331, "Appendix.;" [1 page], Blank.

VERY SCARCE. After the two editions of Cleaveland, the next comprehensive mineralogical work published in America was Shepard's *Treatise*. Based partly on the plan of FREDERICK MOHS and partly on original research, this work treats mineralogy as a separate study in natural history. It is innovative in separating its subject from other topics formerly regarded as belonging to it and defining precisely the terms it applies to mineralogical science. The work is separated into five parts. Volume one contains the first four, while volume two holds the last part. Terminology, described in part one, is divided into 3 divisions. The first applying to simple minerals embraces the geometrical properties of minerals such as crystallography, cleavage, fracture, surface appearance

and double refraction. The second division which refers to compound minerals, describes twin crystals, groups and geodes of crystals, imitative shapes of crystals, and pseudomorphs. Division three describes the properties common to both simple and compound minerals. These are divided into optical and physical. The former consists of luster, color and transparency while the later covers aggregation, hardness, specific gravity, magnetism, electricity, taste and odor. Special attention is given here to describing Mohs scale of hardness and its derivation because this property plays an important role in the Classification and Characteristic sections of the work described below. The second part covering Classification, describes the theoretical part of the science. It fixes the idea of species, and discusses the generalities of classification. After briefly explaining the differences between artificial and natural classification schemes, Shepard introduces his artificial method. Rooted in the principals of Mohs, it derives classes and orders as follows: "1. Minerals possessed of regular forms; 2. Minerals yielding regular forms only by cleavage; 3. Minerals destitute of regular forms, and not affording them by cleavage. The first may be termed the Crystallized class, the second the Semi-crystallized class, and the third the Uncrystallized class." The first two classes are divided into orders by their different systems of crystallization, or primary forms. The third is divided into three orders, depending upon if the contents are solid, liquid or gaseous. The arrangement of the species in each order is in a series according upon the property of hardness, unless the species is liquid or gaseous in which event the classifier is specific gravity. Part three describes the purpose of Nomenclature in mineralogy. It divides the subject into systematic and trivial components, and concludes that in mineralogy only a trivial nomenclature should be applied. This is because minerals do not propagate their kinds like living species and therefore, no systematic treatment of names could be used to distinguish the different minerals. Completing the first volume is part four the Characteristic. This section describes the properties that can be used to identify a specimen in hand and relate it back to the classification and ultimately it proper name. For example, is the mineral crystallized? Such a property is the characteristic of the class. Is the system of crystallization a cube? Such an observation finds the order. Determining the specimens hardness narrows it to usually two or three species. Finally, determining the specific gravity of the specimen theoretically provides the last trait needed to look up the aforementioned properties in the provided tables and determine the name of the species. An interesting feature of these tables is that all species thus far found in America are specifically marked. In 1835 was published the second part of the *Treatise*, bound in two volumes and containing the five part, Physiography. This is a descriptive mineralogy, with the species arranged alphabetically so as to be more useful for students employing Shepard's Characteristic to locate a detailed descriptions of specific minerals. In

addition, two tables are presented. The first outlines a natural history classification and the second presents a chemical scheme. The descriptions of the species are valuable for giving details of American localities, many of which the author had personally visited, and which have long since been exhausted. Numerous well executed figures mostly of crystals are scattered throughout the text, adding to the value of the work. This edition is rare in complete sets.

REFERENCES: Dana's 7th (Bibliography): 80. • *Freilich Sale Catalog*: no. 491. • Ward & Carozzi, *Geology Emerging*, 1984: no. 2040.

**4421. 2nd edition, 1844:** A | Treatise | on | Mineralogy. | By | Charles Upham Shepard, M.D. | Prof. Of Chemistry In The Medical College Of South Carolina. | [...4 lines of titles and memberships...] | [rule] | Second Edition. | [rule] | New Haven: | A.H. Maltby. | Charleston, S.C.—Babcock & Co. | Amherst, Mass.—J.S. & C. Adams. | [rule] | 1844.

8°: viii, 168 p., diagrams, illustrations.

VERY SCARCE. This is the second edition of the first part of the *Treatise* by Shepard published in 1832 with some additional information added to the table of the species. It also is the cause of some bibliographical confusion, because a portion of this edition was bound up with the slightly appended descriptive mineralogy of the first issues (1835). The author gives the following explanation for this occurrence: "In giving the characters of the species (p. 106 to the end), I have appended (within parentheses) to each, the most interesting information of various kinds, which has been brought forward since 1835, with a view to supply the principal deficiency which the use of the treatise might occasion to such as wish to employ it, in connection with my general work on descriptive mineralogy of that date." [Advertisement to the new edition of the Introduction]. Shepard has continued within this introduction to follow the principals of FREDERICK MOHS in relation to the determinations and arrangement of the minerals. This was a natural method of classification that many mineralogies had followed, including JAMES DWIGHT DANA in his *System of Mineralogy*, the second edition of which had been published a few months prior to Shepard's. However, the anonymous (Benjamin Silliman, Jr.?) review of Shepard's *Treatise* in the *American Journal of Science* takes the author to task for still adhering to this method and not adopting the seemingly more appropriate chemical scheme: "Chemical evidence has therefore with him no decisive weight, unless it is corroborative of natural history characters." The inability for Shepard to accept the chemical approach inevitably lead to his *Treatise* being overshadowed by other works.

REFERENCES: *American Journal of Science*: 1st Series, 47 (1844), 333-51. • Dana's 7th (Bibliography): 80.

**4422. 3rd edition, 1857:** A | Treatise | on | Mineralogy. | By | Charles Upham Shepard, M.D., | [...5 lines of titles and memberships...] | [ornate rule] | Third Edition, | With 488 Illustrations. | [ornate rule] | New Haven: | Printed By B.L. Hamlen, | Printer to Yale College. | [rule] | 1857.

4°:  $\pi^4$  1-564 572; 230ℓ.; [i]-vii, [1] blank, [1]-451, [1] blank p., index, 725 illus. PAGE SIZE: 226 x 130 mm.

CONTENTS: [i]-ii, Title page, verso copyright notice.; [iii]-vii, "Supplement to the Appendix.": [viii], Blank.; [1]-5, "Introduction.": 6-31, "Section I. Properties of Simple Minerals.": 32-35, "Section II. Properties of Compound Minerals.": 36-52, "Section III. Properties Common to both Simple and Compound Minerals.": 53-63, "System of Arrangement.": 64-376, "Part II. Characters and Descriptions of Species.": [377]-394, "Chemical Arrangement of the Species.": [395]-420, "Natural History Arrangement of the Species.": [421]-432, "Appendix.": 433, "Plan of Arrangement of the Author's Mineralogical Collection.": 434-438, "Catalogue of C.U. Shepard's

Meteoric Collection.": [439]-451, "Index.": [1 page], Blank.

VERY SCARCE. The first part concerns theoretical aspects, dividing the science into five sections. First, there is a description of the terminology used in the science. Second comes the theoretical structure of the classification, while the third explains the objectives of the nomenclature used in the system. The fourth section derives the characteristics used to distinguish minerals within the theoretical framework, while the five explains the nature of physiography, or the actual placing of minerals into the system. The second part contains descriptions of the minerals arranged in the classification scheme outlined in part one of the *Treatise*. The descriptions are complemented by 725 fine drawings, mostly of crystals. Appendices at the end arrange the mineral names according to their chemistry and to the natural history method. Also of interest are descriptions of Shepard's mineralogical and meteoric collections. Part one of this volume was published in 1852, although no reference is made to this on the title page which lists 1857 as its published date.

REFERENCES: Dana's 7th (Bibliography): 80.

**SHERLEY, Thomas.** (BORN: Westminster, England, 1638; DIED: London, England(?), 5 August 1678) *English physician.*

Sherley (or Shirley) was the grandson of the adventurer Sir Thomas Shirley [1564-1630?]. He studied medicine in France, before returning to England where he quickly became a success. He became physician in ordinary to Charles II, and in 1675 was imprisoned by the House of Commons for appealing to the House of Lords against a member whom they had declared exempt from lawsuits during session.

REFERENCES: Allibone, *Dictionary of English Literature*, 1859-71. • BBA: I 995, 232-236; 997, 72. • DNB. • Hirsch, *Biographisches Lexikon*, 1884-8: 5, 384. • Sherley, T., *The case of Thomas Sherley Esq. one of His Majesties physitians in ordinary, Plaintiff, against Sir John Fagg, Baronet, defendant*, [1678], [2] p. • Watt, *Bibliotheca Britannica*, 1824. • WBI.

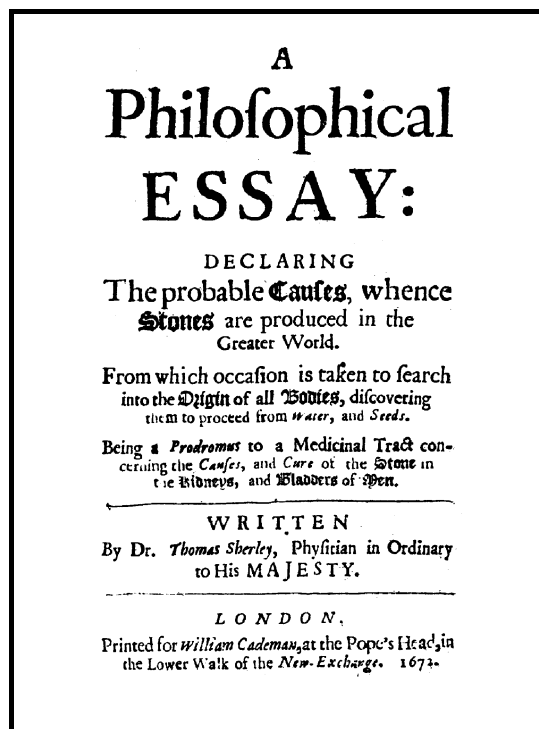
**4423. — English, 1672.**

A | Philosophical | Essay: | Declaring | The probable Causes, whence | Stones are produced in the | Greater World. | From which occasion is taken to search | into the Origin of all Bodies, discovering | them to proceed from Water, and Seeds. | Being a Prodromus to a Medicinal Tract concerning the Causes, and Cure of the Stone in | the Kidneys, and Bladders of Men. | [rule] | Written | By Dr. Thomas Sherley, Physitian [sic] in Ordinary | to His Majesty. | [rule] | London. | Printed for William Cademan, at the Pope's Head, in | the Lower Walk of the New-Exchange. 1672.

4°: A-K<sup>4</sup>; 80ℓ.; [16], 1-143, [1] p.

CONTENTS: [2 pgs], Title page, verso blank.; [4 pgs], Dedication to King George I, signed Tho[mas]. Sherley.; [9 pgs], "To The | Reader."—signed Tho[mas]. Sherley, 27 January 1672.; [1 pg], Errata.; 1-139, Text.; [140], Blank.; 141-143, "An Advertisement.": [1 pg], Blank.

RARE. Describes the origin and supposed causes of the formation of stones in the earth and in living things. Sherley sets forth and develops at length the thesis that all stones and metals have seeds from which they grow, as in the two other kingdoms of nature like botany and animals. The seed is invisible, but is often present in vapors that rise from the center of the earth.



PHILOSOPHICAL ESSAY, 1672

His ideas are based upon ancient traditions, principally Aristotlian philosophy. Sherley speculates that the stones are created from the interaction of water with external pressures and condensed from seeds. All bodies are originally meer water, which by the means of the proper seeds is coagulated, condensed and brought into various forms. The seeds cause the praticles of water to be altered in both texture and shape, corresponding to the figure of the seed.

**Facsimile reprint, 1978:** A | Philosophical | Essay: | Declaring | The probable Causes, whence | Stones are produced in the | Greater World. | Thomas Sherley | [ornament] | Arno Press | A New York Times Company | New York / 1978. 4°: [20], 1-143, [3] p.

[2 pages], Half title page, "A Philosophical Essay," verso "This is a volume in the Arno Press collection | ..."; [2 pages], Title page, verso "... | Library of Congress Cataloging in Publication Data | ..."; [2 pages], Facsimile reproduction of original title page, verso blank.; [4 pages], Dedication to King George I, signed Tho[mas]. Sherley.; [9 pages], "To The | Reader."—signed Tho[mas]. Sherley, 27 January 1672.; [1 page], Errata.; 1-139, Text.; [140], Blank.; 141-143, "An Advertisement."; [1 page], Blank.; [2 pages], "History of Geology | An Arno Press Collection."

**REFERENCES:** Adams, *Birth and Development*, 1938: 87-8, 102 & 290. • BL: [954. a. 12.]. • Debus, A.G., "Thomas Sherley's 'Philosophical essay' (1672): Helmontian mechanism as the basis of a new philosophy," *Ambix: Journal of the Society for the History of Alchemy and Chemistry*, 27 (1980), 124-35.. • Gatterer, *Mineralogischen Literatur*, 1798-9: 2, 7. • Kiely, R.S., *The architect in the alembic: Chemistry, neoplatonism, and religion in 17th century English generation theory*. Dissertation at Northwestern University, 1996. [See: *Dissertation Abstracts International*,

57 (1996), 2646-A. • LKG: XIII 7.

**4424. Latin transl., 1675:** Dissertatio | Philosophica | explicans | Causes Pro- | biles Lapidum | In Macrocosmo, | Quâ occasione | In Originem Corporum omnium | inquiritur atque ostenditur eam de- | beri Aquæ & Seminibus, | Præmissa Tractatui Medico | De | Causis Et Cura- | tione Calculi tam | Renum Quàm Vesicæ, | Anglice primùm edita | à | Thoma Schirlæo, Doct. | S.R. Maj. Brit. Medico Ordinario, | Nunc in gratiam Philosophorum Latine | reddita. | [rule] | Hamburgi, | Impensis Christiani Guth I, Bibliopolæ, 1675.

8°: [1]-124 p.

**RARE.** Translation of *A Philosophical Essay* (London, 1672).

**REFERENCES:** BL: [990.a.5.]. • Gatterer, *Mineralogischen Literatur*, 1798-9: 2, 7.

### SHORT, Thomas.

**REFERENCES:** Allibone, *Dictionary of English Literature*, 1859-71. • BBA: I 998, 156-168. • Pogendorf: 2, col. 912. • Watt, *Bibliotheca Britannica*, 1824. • WBI.

### 4425. — English, 1734.

The Natural Experimental, and Medicinal History of the Mineral Waters of Derbyshire, Lincolnshire, and Yorkshire, particularly those of Scarborough. Wherein, they are carefully examined and compared, their contents discovered and divided, their uses shewn and explained, and an account given of their discovery and alterations. Together with the natural history of the Earths, Minerals, and Fossils through which the Chief of them Pass ... London: For the Author, 1734.

4°: [20], xxii, 317, [1], 315-359, [3] p., 4 engraved plates (3 folding).

**VERY SCARCE.** A vast compilation on every topic that might be related to the enviornment around Derybshire, England. Although the work primarily concerns the waters of the area and what minerals they contain, the work is typical of the period as it contains meterological, population, and agricultural records. The plates show crystals of the salts of 34 of the waters.

The author's impressive scientific examination of over 30 water sources in England. Short (1690-1772), eminent Sheffield physician and master of Gronville and Caius Colleges at Cambridge, was the first to attempt to systematize mineral water analysis. He discusses the topical and internal application of the waters for such afflictions as rheumatism and gout, fevers, and diabetes. A discourse on bathing records the temperatures of warm and cold water baths from Carlisle to Oxford. The fine engravings illustrate mineral crystals from numerous water sources.

**Companion work, 1740:** An essay towards a natural, experimental, and medicinal history of the principle mineral waters of Cumberland, Northumberland, Westmoreland, ... To which is added, a short discourse on cold and tepid bathing, and a table of the temperature ... Being the second volume of The mineral waters of England. By Thomas Short, ... Sheffield : printed for the author, by John Garnet, anno Dom:, 1740. [12], 330, [2] p.

**REFERENCES:** Osler, *Bibliotheca Osleriana*, 1969: no. 3868.

**SHTUKENBERG, Aleksandr Antonovich.** (BORN: 1844; DIED: 1905) *Russian paleontologist.*

REFERENCES: Ivanovskii, Andrei Borisovich., *Rugozy, opisannye A.A. Shtukenbergom, 1888-1905.* Moskva, Nauka, 1987. 44 p., [22] p. of plates, illus.

**4426. — Russian, 1901 [History].**

Materialy dlya istoni Mineralogicheskogo i Geologicheskogo Kabinetov Kazanskogo Universiteta k 100-letnei godovshchme Universiteta, 1805—1865. [Materials for a History of Mineralogical and Geological Studies in Kazan University for the 100-Year Anniversary of the University, 1805—1865]. Kazan, 1901.

8°: 82 p.

EXTREMELY RARE. An historical account of the mineralogical and geological departments of Kazan University, 1805 to 1865.

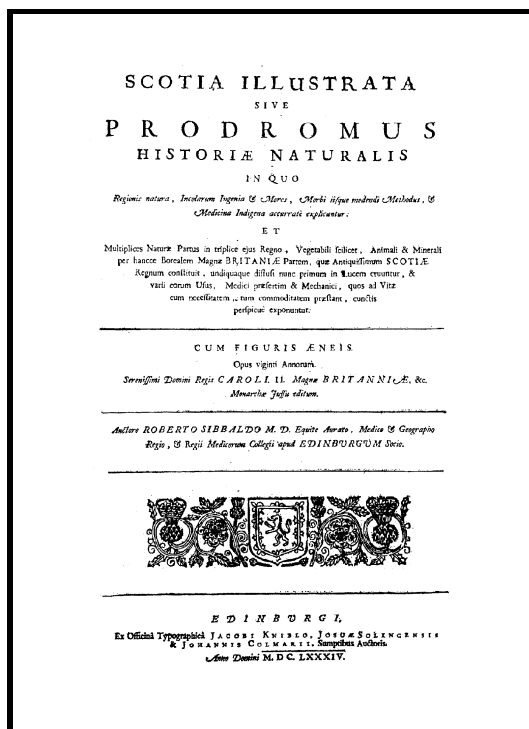
**SIBBALD, Robert.** (BORN: Edinburgh, Scotland, 15 April 1641; DIED: Edinburgh, Scotland, August 1722) *Scottish physician & naturalist.*

Sibbald was the founder and president of the College of Physicians in Edinburgh. He received his medical degrees from Leyden (1661) and Angers (1662). He also studied in Paris and London. In 1667, with Dr. Andrew Balfour he founded the Botanical Garden of Edinburgh. Sibbald was the personal physician of Charles II. In 1685, he was appointed the first professor of medicine at the University of Edinburgh.

REFERENCES: Allibone, *Dictionary of English Literature*, 1859-71. • BBA: I 999, 218-254. • DNB: 18, 179-81. • Hirsch, *Biographisches Lexikon*, 1884-8: 5, 385. • Livingstone, *Minerals of Scotland*, 2002: p. 12-4, portrait. • Munk, W., *The roll of the Royal College of Physicians of London*. 2nd edition. London, 1878. 3 vols. • *Nouvelle Biographie Générale* (Hoefer). • Waller, *Dictionary of Universal Biography*, 1857-63. • Watt, *Bibliotheca Britannica*, 1824. • WBI. • Wilson, *History of Mineral Collecting*, 1994: 192.

**4427. — Latin, 1684 [First edition].**

Scotia Illustrata, | Sive | Prodrōmus | Historiæ Naturalis | In Quo | Regionis natura, Incolarum Ingenia & Mores, Morbi iisque medendi Methodus, & | Medicina Indigena accuratè explicantur: | Et | Multiplices Naturæ Partus in triplice ejus Regno, Vegetabili, scilicet, Animali & Minerali | per hanc Borealem Magnæ Britanniæ Partem, quæ antiquissimum Scotiæ | Regnum constituit, undique diffusi nunc primum in Lucem eruuntur, & | varii eorum Usus, Medici præsertim & Mechanici, quos ad Vitæ | cum necessitatem, tum commoditatem præstant, cunctis | perspicuè exponuntur: | [rule] | Cum Figuris Æneis. | Opus viginti Annorum. | Serenissimi Domini Regis Caroli. II. Magnæ Britanniæ, &c. | Monarchæ Jussu editum. | [rule] | Auctore Roberto Sibbaldo M.D. Equite Aurato, Medico & Geographo | Regio, & Regii Medicorum Collegii apud Edinbvr̃gṽm Socio. | [rule] | [ornament] | [rule] | Edinbvr̃gi, |



SCOTIA ILLUSTRATA, 1684

Ex Officinâ Typographicâ Jacobi Kniblo, Josuæ Solingensis | & Johannis Colmarii. Sumptibus Auctoris. | [rule] | Anno Domini M. DC. LXXXIV.

3 parts in one volume. [Part 1] 2°: ¶<sup>2</sup> †<sup>1</sup> A-E<sup>2</sup> χ<sup>2</sup> \*<sup>21</sup> 2\*<sup>21</sup> \*<sup>2</sup> \*<sup>1</sup> A<sup>21</sup> B-Cc<sup>2</sup> \*<sup>2</sup> \*<sup>1</sup>; 74l.; [10], 1-15, [1], [14], 1-102, [6] p.; [Part 2] 2°: \*<sup>2</sup> †<sup>1</sup> A-Ff<sup>2</sup> †<sup>2</sup> †<sup>1</sup>; 63l.; [6], 1-114, [6] p.; [Part 3] 2°: \*<sup>2</sup> †<sup>1</sup> A-H<sup>2</sup> †<sup>2</sup> L-P<sup>2</sup> †<sup>1</sup> [plates] ¶<sup>1</sup>; 35l.; [6], 37, [7], 41-56, [4] p., 23 engraved plates on 12l. Each part has separate title page.

CONTENTS: [Part 1] [2 pgs], Title page, verso blank; [2 pgs], "Regi"—signed Robertus Sibbaldus.; [1 pg], "Ordo Operis."; [1 pg], "Edinburgh" and "Approbatio."; [1 pg], Added title page, dated 1683.; [1 pg], "M. Alexandri Bodii Carmen."; [2 pgs], "... | Do. Roberto Sibbaldo | ..."; 1-2 (B1r-B1v), "Nuncius Scoto-Britannus, | Sive Admontio | De | Atlante Scotico, | ..."; 3-9 (B2r-D1r), "Series Operis Explicatvr."; 9-14 (D1r-E1v), "Scotiæ | Modernæ Illvstratæ" [=references]; 14-15 (E1v-E2r), "Admonitio."; [1 pg], Blank.; [1 pg], "Catalogus."; [1 pg], Blank.; [1 pg], Sectional title page, "Pars Prima | Prodrōmi | Natvralis historiæ Scotiæ | ..."; [1 pg], "In | Eximium Hoc Opus | ..."; [2 pgs], "Index." [=contents, section 1]; [1 pg], Dedication.; [1 pg], Blank.; [2 pgs], "... | Do. Roberto Sibbaldo | ..."; [3 pgs], "Præfatio | Ad | Lectorem."; [1 pg], Blank.; 1-102, Text.; [6 pgs], "Index."

[Part 2] [2 pg], Title page, verso blank.; [2 pgs], Dedication.; [2 pgs], "Index" [=contents, section 2]; 1-114 (A1r-Ff1v), Text.; [6 pgs], "Index."

[Part 3] [2 pgs], Title page, verso blank.; [2 pgs], Dedication.; [2 pgs], "Index." [=contents, section 3]; 1-35 (A1r-H1r), Text.; 36-37 (H1v-H2r), "Appendix."; [1 pg], Blank.; [4 pgs], "Index."; [1 pg], Sectional title page.; [1 pg], "Index Capitum Libri Quarti."; 41-56 (L2r-P1v), Text.; [2 pgs], "Index." [=contents, section 4]; [Plates]; [1 pg],

## SIEMSSSEN

"Tabulæ Æneæ" [=explanation of plates].; [1 pg], "Lectori Benevolo."

**PLATES:** The 23 plates show plants, fossil leaves, fish, a ship, birds, insects, claws, and crystallization. Included is one figuring a coat-of-arms that is not called for in the list of plates. The first plate is engraved by Geo. Maine, while three others are signed Jo. Reid. The plates (which have the usual rather amateur look about the printing) figure some 15 birds, including a puffin, a barnacle goose and the first of a loon.

**SCARCE.** Written by command of Charles II who appointed Sibbald as his natural historian and geographer for Scotland (he was also his appointed physician), this is the first comprehensive work on the natural history of Scotland. The text is divided into sections covering the climate, geography, epidemiology and folk medicine, flora, fauna, and mineralogy, with historical and contemporary references relating to them. The first is a prodromus on the natural history of Scotland, with special attention paid to folk medicine. The second section describes the plants and horticulture of the region. Included is an alphabetical catalog of the plants contained in the botanical gardens of Edinburgh. Section three provides information on the native and domestic animals of Scotland, while the final section pertains to the mineralogy of the country. Included here are descriptions with location information of minerals used in medicine including earths, salts, sulphur, bitumen. Other material covers stones in general, marble, metals, semi-metals, petrifications, marine fossils, etc.

**Contents:** pt. [1], Nuncius Scoto-Britannus; sive, Admonitio de atlante Scotico; pt. [2], De plantis Scotiae; pt. [3], De animalibus Scotiae ... et de mineralibus metallis et marinis Scotiae.

**REFERENCES:** Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 163. • LKG: XIV 402. • Nissen (ZBI): no. 3847. • NUC: 545, 70-2 [NS 0526647]. • Ward & Carozzi, *Geology Emerging*, 1984: no. 2050. • Wing: S-3727.

### 4428. — Latin, 1697 [Collection catalog].

Auctarium | Musæi Balfouriani, | E Musæo Sibbaldiano, | Sive | Enumeratio & Descriptio | Rerum Rariorum, tam Naturalium | quam Artificialium; tam Domestic- | arum quam Exoticarum; Quas Ro- | bertus Sibbaldus M.D. E- | ques Auratus, Academiæ Edinbur- | genæ donavit. | Quæ quasi Manuductio brevis est, ad | Historiam Naturalem. | [rule] | Psal. CIV. | [...3 lines of quotation...] | [rule] | Edinbvgi, | Impressum per Academiæ Typogra- | phum, Sumptibus Academiæ, 1697.

12°:  $\pi^4$  B-Z<sup>4</sup> Aa-Ff<sup>4</sup> (\$2 signed); 116 $\ell$ .; [16], 216 p.

**CONTENTS:** [2 pgs], Title page, verso "Librum hunc cui Titulus Auctarium Mu- | sæi Balfouriani, ..." [Errata at bottom of page].; [1 pg], "Senatui | Populoque Edinburgeno"—signed Robertus Sibbaldus.; [1 pg], Blank.; [11 pgs], "Præfatio | Ad Lectorem."; [1 pg], Blank.; 1-10 (C1r-D1v), "Index | Authorum | Quibus usi sumus in hoc | opere." [=reference list].; 11-14 (D2r-D3v), "Carmina | In laudem Authoris."; 15-18 (D4r-E1v), "Accede."; 19-216 (E2r-Ff4v), Text.

**VERY RARE.** This work describes the natural history collection that Sir Robert Sibbald presented to the University of Edinburgh in 1697. Included in the gift were items inherited by Sibbald from Sir Andrew Balfour [see note below] in 1694. The text was prepared by Sibbald and published at the expense of the University. It is divided into four parts. The first (p. 19-72) covers stones, fossils, minerals, corals, metals, semi-metals, petrifications, etc. The second (p. 73-112) describes the plants, herbs, vegetables, etc. The third is split into two sections. The first of these (p. 113-178) describes the common animals and shells, while the second (p. 179-198) provides information on the poisonous animals, such as snakes, various fish, lizards, etc. Finally, artificial creations (p. 199-216) are covered. Included in this part are coins, manuscripts and mostly books. Soon after the collection was donated it was entirely dissipated (Wilson).

**Andrew Balfour.** (BORN: Balfour Castle, Denmiln, Fifeshire, Scotland, 18 January 1630; DIED: Edinburgh, Scotland, 10 January 1694) *Scottish physician & botanist.* Balfour was educated at St. Andrews and Oxford, finally receiving his M.D. from Caen in 1661. He practised medicine successively in London, St. Andrews, and Edinburgh. Together with Robert Sibbald he founded the Botanical Gardens of Edinburgh. He authored several titles on botanical subjects.

**REFERENCES:** Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 274. • Murray, *Museums*, 1904: 3, 175. • NUC: [no copy listed]. • Wilson, *History of Mineral Collecting*, 1994: 89 & 192. • Wing: no. 3722. (Balfour) DNB: 1, 968-9.

### SIEMSSSEN, Adolf Christian. (BORN: Altstrelitz, Germany, 2 May 1768; DIED: Rostock, Germany, 17 June 1833) *German naturalist.*

Siemssen studied theology and natural sciences in Bützow and Göttingen. He became a private docent at the university and an instructor at the large city school in Rostock. He was especially interested in the botany and animals of his native land.

**REFERENCES:** ADB. • DBA: I 1184, 234-237; II 1224, 419-420. • Hamberger & Meusel, *Gelehrte Teutschland*, 1796-1834. • Hirsch, *Biographisches Lexikon*, 1884-8. • *Neuer Nekrolog der Deutschen*. • Poggendorff: 2, col. 927. • WBI.

### 4429. — German, 1791-5 [Periodical].

Magazin für die Naturkunde und Oekonomie Meklenburgs. Herausgegeben von A.C. Siemssen. Schwerin und Leipzig, 1791-95.

2 vols.

**VERY SCARCE.** Siemssen edited this short lived journal that dealt with the natural science and economics of the region of Mecklenburg in eastern Germany.

**REFERENCES:** BL: [967.e.7.]. • LKG: XIV 149.

### 4430. — German, 1792.

Vorläufige Nachricht von den Mineralien Mecklenburgs, systematisch entworfen. Schwerin, Gedruckt und Verlegt von Wilhelm Bärensprung, 1792.

8°: 56, [6] p.

**RARE.** An early topographical mineralogy in which the minerals of the area of Mecklenburg in eastern Germany are systematically treated.

**REFERENCES:** BL: [973.b.10.(4.)]. • LKG: XIV 150a.

**4431. — German, 1804.**

Systematische Uebersicht der mineralogisch einfachen Mecklenburgischen Fossilien (Neuer Beitrag zur lithographischen Kenntniss der Sudbaltischen Länder, mit besonderer Rücksicht auf Mecklenburg) von Adolf Christian Siemssen. Rostock und Leipzig, 1804.

12°: 64 p.

RARE. Co-authored with Ludwig Peter Friedrich Ditmar [1784-1872]. This is a topographical study of the fossils and a few minerals found in the region of Mecklenburg in eastern Germany.

REFERENCES: BL: [T.874.(5.)].

**SILVA, José Bonifácio de Andrada e.** (BORN: Santos, Province San Paulo, Brazil, 1762/3; DIED: Rio de Janeiro, Brazil, 15 April 1838) *Brazilian mineralogist*.

Silva studied at Freiberg Bergakademie under A.G. WERNER. He was appointed professor of mineralogy at the University of Coimbra in Brazil. He later became professor of physics and director of mining at the University of Lisbon. In retirement he returned to Brazil.

REFERENCES: ABE: II 853, 281-294. • Amaral, R.C., *José Bonifácio de Andrada e Silva - The Greatest Man in Brazilian History*. New York, Xlibris, 2000. 305 p., illus. [ISBN: 0738812862]. • *Bi-Centenário Do Nascimento Do Patriarca Da Independência Do Brasil José Bonifácio De Andrada E Silva 1763-1963*. Mesa Da Camara Dos Deputados. Brasília, 1964 149 p., frontispiece (portrait). [Published as: *Biblioteca da Camara dos Deputados*]. • Carvalho, A.F. de, "José Bonifácio de Andrada e Silva, Mineralogista," *Bol. Acad. Ciências de Lisboa*, **13** (1941), ?? • Lopes, M.M., "José Bonifácio de Andrada e Silva - o mineralogista-na produção historiográfica-Brasileira," *Quipu*, **7** (1990), 335-44. • Poggendorff: 1, cols. 43-44. • Portugal Ferreira, M., "Dr. José Bonifácio d'Andrade e Silva: Mineralogista, Acadêmico, Mineiro," *Ciências Hoje*, **10** (1989), 21-4. • Schiffner, *Alter Freiburger Bergstudenten*, 1935-40: 1, 19. • WBI.

**4432. — German, 1799.**

Kurze Angabe der Eigenschaften und Kennzeichen einiger neuen Fossilien aus Schweden und Norwegen, nebst einigen chemischen Bemerkungen über dieselben in einem Schreiben an d. Herrn Bergmeister Beyer in Schneeberg vom Herrn D'Andrada ... 1799.

8°: 14 p. VERY RARE.

REFERENCES: BL. • NUC: [no copy listed]. • Poggendorff: 1, col. 44.

**SIMMS, J.R.****4433. — English, 1869** [Sale catalog].

Catalogue of the Private Cabinet of J.R. Simms, Fort Plain, N.Y., a Thirty Year's Collection of Coins, Tokens, Continental and Shin-Plaster Currency, Antiquarian and Indian Relics, Fossils, Minerals, Articles from the Battle-Fields of the Revolution and the Late Civil War, &c. Fort Plain, New York, 1869.

8°: 34 p.

VERY RARE. Descriptive catalog of J.R. Simms collection of coins, fossils, and lugubrious relics. Among

some of the items from the antiquarian department are Part of an Ivory Billiard Ball, from the Great Fire in Cooperstown, April 10, 1862 (No.46), a String of Beads, taken from the neck of an Indian, shot while swimming Pitt river, in California (No.56), and a Link of the Mammoth Chain, which was drawn across the Hudson River at West Point in 1778, weight 102 1/2 lbs. (No.2).

REFERENCES: NUC.

**SIMON, Ernst Friedrich Wilhelm.**

REFERENCES: DBA: I 1186, 385. • Hamberger & Meusel, *Gelehrte Deutschland*, 1796-1834. • WBI.

**4434. — Latin, 1778.**

Specimen iuris Metallici Saxonici de Partibus Metallicis circa Ligna von Holz-Kuren. Lipsiae, Literis Waltherianis, [1778].

4°: 26, [2] p. RARE.

REFERENCES: Hoover Collection: no. 747.

**SIMONIN, Louis Laurent.** (BORN: Marseilles, France, 22 August 1830; DIED: 1886) *French engineer & geologist*.

Simonin studied at the school of mines in Saint Etienne, from which he graduated in 1852. He held positions in France and Italy, and was commissioned by the French government to make several trips to the United States. During these times he visited Cuba, the West Indies, Central America, Panama, and Mexico. In 1867 he was placed at the head of a French commission charged to study the laying out of the Pacific railroad and the preliminary surveys, and in his report greatly praised the work.

REFERENCES: ABF: I 960, 408-420. • WBI.

**4435. — French, 1865.**

La Richesse Minerale de La France. Paris, Noblet et Baudry, 1865.

8°: 64 p. A short study concerning the mines and mineral resources of France. He speaks of abundant gold being recovered from the alluvial of the Rhine, the Rhone, and other streams coming from the Pyrenees. RARE.

REFERENCES: NUC. • USGS Library Catalog.

**4436. — French, 1867.**

La Vie Souterraine | Ou | Les Mines Et Les Mineurs | Par L. Simonin | Ouvrage | Illustré De 160 Gravures Sur Bois | De 30 Cartes Tirées En Couleur | Et De 10 Planches Imprimées En Chromo-Lithographie | [ornament] | Paris | Librairie De L. Hachette Et Cie | Boulevard Saint-Germain, N°77 | [rule] | 1867 | Tous droits réservés.

8°: [4], iii, [1], 604, [1] p., 10 hand-colored lithographic plates (some heightened in gold or silver; 2 of which are of mineral specimens), 30 colored maps (2 double-page), 163 figs. Title in red and black. PAGE SIZE: 271 x 188 mm.

VERY SCARCE. First appearance of this popular and profusely illustrated work on all aspects of mining, which includes a history of mining, metallurgy and mineralogy, as well as methods, techniques and equipment. The three parts of the book are divided into



## SIMSON

coal-mining, metal-mining and the mining of precious stones. Simonin also includes sections on mining in America with a map of the sites along Lake Superior and one of California-Nevada. Perhaps the most notable part of this work is its attempt to represent mining life graphically. The many excellent text illustrations are engravings depicting mining techniques and conditions in the mines. A number of the illustrations show details of equipment ranging from drill bits to elevators to miner lamps. A long chapter discusses and pictures various mining accidents. Altogether a very interesting work of broad scope.

**Facsimile reprint, 1982:** *La Vie Souterraine Ou Les Mines Et Les Mineurs* Paris, 1982. 8°.

REFERENCES: BMC: 4, p. 1928. • Dewalque, Gustav., *Catalogue des Ouvrages de Géologie, de Minéralogie et de Paléontologie ainsi que des Cartes Géologiques qui se trouvent dans les principales bibliothèques de Belgique*. Liège, 1884. xii, [2], 394 p; no. 1584. • NUC. • Sabin, *Dictionary*, 1868-1936: no. 81317. • Sinkankas, *Gemology Bibliography*, 1993: no. 6060.

### Mines and Miners

**4437. English transl., 1868:** *Mines and Miners, or Underground Life* translated by H.W. Bristow. London, Mackenzie, 1868.

4°: [2], [i]-xix, [1], [1]-522 p., 160 engravings, 20 geologically coloured maps and 10 plates of metals and minerals, plus addenda with 2 fold out plans of coal machinery.

CONTENTS: [2 pgs], Title page, verso printer's information.; [i]-ii, "Author's Preface."—signed L. Simonin.; [iii], "...Note By The Translator."—signed Henry W. Bristow, October 1868.; [iv], "Errata."; [v], "Coloured Illustrations."; [vi], "Geological Maps."; [vii]-x, "Table Of Illustrations."; [xi]-xix, "Table Of Contents."; [1 pg], Blank.; [1], Sectional title page, "Part I. | Coal Mines."; [2], Blank.; [3]-516, Text.; [517]-522, "Index."

VERY SCARCE. Translation by Henry William Bristow of *La vie Souterraine* (1867).

**Henry William Bristow.** (BORN: 1817; DIED: 1889) *English geologist*. Bristow was educated at King's College, London, and upon graduation in 1842 he entered into the service of the Geological Survey of Great Britain. He retired in 1888.

REFERENCES: NUC. • Sinkankas, *Gemology Bibliography*, 1993: no. 6062 [not seen]. • Zeitlinger & Sothoran, *Bibliotheca Chemica*, 1921-52: no. 4393. (Bristow) BBA: I 148, 133-138. • Boase, *Modern English Biography*, 1892-1921. • DNB. • *Geological Magazine*: 6 (1889), 381-4. • Lambrecht & Quenstedt, *Catalogus*, 1938: 58. • Poggendorff: 3, 196-7 & 4, 187. • Sarjeant, *Geologists*, 1980: 2, 621. • WBI.

**4438. American issue, 1869:** *Underground Life; | Or, | Mines And Miners.* | By L. Simonin. | Translated, Adapted To The Present States Of British | Mining, And Edited | By H.W.Bristow, F.R.S., | Of The Geological Survey; Honorary Fellow Of King's College, London. | Illustrated With 160 Engravings On Wood, 20 Maps Geologically Coloured | And 10 Plates Of Metals And Minerals In Chromolithography. | [rule] | New York: | D. Appleton & Co., Grand Street. | 1869.

4°: [2], [i]-xix, [1], [1]-522 p., 64 plates, illus., maps. Title in red and black. PAGE SIZE: 256 x 178 mm.

CONTENTS: [2 pgs], Title page, verso printer's information.; [i]-ii, "Author's Preface."—signed L. Simonin.; [iii], "...Note By The Translator."—signed Henry W. Bristow, October 1868.; [iv], "Errata."; [v], "Coloured Illustrations."; [vi], "Geological Maps."; [vii]-x, "Table Of Illustrations."; [xi]-xix, "Table Of Contents."; [1 pg], Blank.; [1], Sectional title page, "Part I. | Coal Mines."; [2], Blank.; [3]-516, Text.; [517]-522, "Index."

VERY SCARCE. American issue of the Bristow translation. "I have chosen to preserve his text entire when it was possible to do so, making only some few interpolations where they appeared to me to be absolutely necessary... the Geology of the maps has either been revised... or new maps constructed... to replace those in the original work when considered necessary."—*Translator's note*, p. iii.)

**London issue, 1869:** *Underground Life; | Or, | Mines And Miners.* | By L. Simonin. | Translated, Adapted To The Present States Of British | Mining, And Edited | By H.W.Bristow, F.R.S., | Of The Geological Survey; Honorary Fellow Of King's College, London. | Illustrated With 160 Engravings On Wood, 20 Maps Geologically Coloured | And 10 Plates Of Metals And Minerals In Chromolithography. | [rule] | London: | Chapman And Hall, 193, Piccadilly. | 1869.

REFERENCES: NUC. • Sinkankas, *Gemology Bibliography*, 1993: no. 6063 [reproduces title page]. • *USGS Library Catalog*.

### Les Pierres

**4439. — French, 1869** [First edition].

*Les Pierres | Esquisses Minéralogiques | Par L.Simonin | Ouvrage | Illustré De 91 Gravures Sur Bois a Par Eugène Cicéri, E. Petot, A. Mesnel Et E. Tournois | De 6 Planches Imprimées En Chromo-Lithographie | D'Après Les Aquarelles De A. Faguet | Et De 15 Cartes Tirées En Couleur | [ornate rule] | Paris | Librairie De L. Hachette Et Cie | Boulevard Saint-Germain, N°77 | [rule] | 1869 | Droits de traduction et de reproduction réservés.*

4°: [i]-ix, [3], [1]-516 p., 91 woodcuts by Cicero and others, 6 chromolithographs after Faguet, 15 maps, plans in color. PAGE SIZE: 273 x 187 mm.

CONTENTS: [Frontispiece].; [i-ii], Title page, verso blank.; [iii], Dedication to George Sand.; [iv], Blank.; [v]-ix, "Préface."—signed L. Simonin, 1 July 1869.; [1 pg], Blank.; [1 pg], Sectional title page, "Première Partie. | La Tribu Des Pierres."; [1 pg], Blank.; [1]-501, Text.; [502], Blank.; [503]-509, "Table Des Figures."; [510], Blank.; [511]-516, "Table Des Matières."

VERY SCARCE. An important work on mineral extraction and precious stones. Profusely illustrated with fine engraved plates and beautiful color plates of gems, crystals and geological strata, this was a very popular work in its day.

REFERENCES: NUC. • Sinkankas, *Gemology Bibliography*, 1993: no. 6064. • *USGS Library Catalog*.

**SIMSON, Archibald.** (BORN: 1564?; DIED: 1628) *English/Scottish pastor*.

Simson was a church minister in the Dalkeith parish of Scotland.

REFERENCES: Allibone, *Dictionary of English Literature*, 1859-71. • BBA: I 1004, 224-225. • Watt, *Bibliotheca Britannica*, 1824. • WBI.

**4440. — Latin, 1622-4.**

[Contained within a single rule box:] [ornament] | Hieroglyphi | ca Animalivm | Terrestriuv | Colatiliuv, Nata- | tilivm, Reptilivm, in- | sectorv, Vegetivo- | rvm, Metallorvm, | Lapidv: &c. | Quæ in scripturis Sacris inveniuntur;

| & plurimorum alicum, cum eorum in-  
terpretationibus, ab Theologiæ | studiosos. Opus  
contextum Per | Archibaldum Simsonum |  
Dalkethensis Ecclesiæ Pastorem. | [rule]  
Edinbvgi, | Excudebat Thomas Finlason, Augusti-  
| ssimæ Regiæ Majest. Typographus 1622. | Cum  
Privilegio.

[TITLE OF VOLUME TWO READS:]

[Contained within a single rule box:] [ornament] |  
Hieroglyphi | ca Insectorvm | Vegetativorum,  
| Metallorum, & Lapidum. | Quæ in Scripturis  
sacris inveniuntur; | & plurimorum aliorum, cum  
eorum | significtionibus: per M. Archibal- | dum  
Simsonum Dalketbensis Ec- | clesiæ Pastorem. |  
Tomvs Secvndvs. | Horat. | Omne tulit punctum  
qui miseuit vtile dulci | Lectorem delectando  
pariterque morvendo. | [rule] | Edinburgi, |  
Excudebat Thomas Finlason, Augustissi- | mæ  
Regiæ Majest. Typographus 1624.

2 vols. [VOL 1, Libri 1: 1622] 4°:  $\pi^4 \text{ } \P^3 \text{ A-M}^4 \chi^1$ ;  
56ℓ.; [14], 1-97, [1] p. [VOL 1, Libri 2: 1623] 4°:  $\pi^4$   
A-N<sup>4</sup>; 56ℓ.; [8], 1-102, [2] p. [VOL 1, Libri 3: 1623] 4°:  
 $\pi^2 \text{ A-B}^4, \chi^1$ ; 12ℓ.; [4], 1-19, [1] p. [VOL 2: 1624] 4°:  $\pi^4$   
A-E<sup>4</sup>,  $\chi^2$ ; 26ℓ.; [8], 1-41, [3] p.

CONTENTS: [Vol 1, Libr 1] [2 pgs/=π1, Title  
page, verso blank.; [3 pgs/=π2r-π3r], Dedication, signed  
Archibaldus Simsonus.; [1.3 pgs], "Sivdioso Lecto |  
ri & Benevolo."; [1.6 pgs], "Praefatio."; [5 pgs/=¶1r-  
¶3r], "Mvsarvm La- | chrymæ Obitu | Cancellari."; [1  
pg/=¶3v], "Index Animalivm."; 1-97, Text.; [1 pg],  
Blank.

[Vol 1, Libr 2] [2 pgs/=π1, Title page, verso blank.;  
[1 pg/=π2r], "Ad Authorem."; [1 pg], Blank.; [3 pgs],  
"Ad Lectorem."; [1 pg], "Ad Illustrissimum."; 1-102, Text.;  
[2 pgs], "Index Volatilivm."

[Vol 1, Libr 3] [2 pgs/=π1, Title page, verso blank.;  
[1 pg], "Candido Lecto | ri."; [1 pg], "Index Natatilivm."; 1-19,  
Text.; [1 pg], Blank.

[Vol 2] [2 pgs/=π1, Title page, verso blank.;  
[2.5 pgs], Dedication to Thomæ Mel-Rosiae, signed Arch.  
Symsonus.; [0.5 pgs], "Ad Illustrissimum Comi- | tem Mel-  
Rosium."; [1 pg], "Benevolo Lec- | tori."; [1 pg], "Ad  
Authorem."; [1 pg], "In D. Archibaldi Symsoni, | labores  
Hieroglyphicos."; 1-41, Text.; [1 pg], "Index Insectorvm."; [1  
pg], "Ad Lectorem Philomuson."; [1 pg], "In Zoilum."

VERY RARE. This work on ancient natural history  
includes in the first volume information on animals  
and in the second volume on descriptions of insects.  
Although the title clearly states that information on  
plants, metals and stones could be found in volume two,  
it appears that these sections were never included in the  
volume.

[t. 1, lib. 1] Hieroglyphica animalivm  
terrestrivm.—[t. 1, lib. 2] Hieroglyphica volatilivm.—[t.  
1, lib. 3] Hieroglyphica natatilivm.—t. 2. Hieroglyphica  
insectorvm, vegetativorum, metallorum & lapidum.

REFERENCES: BL: [1015.b.9]. • STC: 22567.

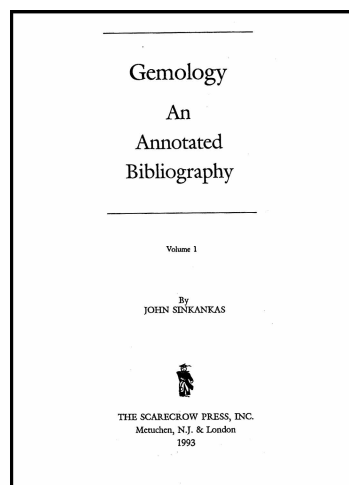
**SĪNĀ (IBN), Abū ‘Alī al-Ḥusain ibn ‘Abdallāh.**

See: *Avicenna*.

**SINKANKAS, John.** (BORN: Paterson, New Jersey,  
U.S.A., 15 May 1915; DIED: San Diego, California,  
U.S.A., 17 May 2002) *American author, mineralogist  
& gemologist.*

Sinkankas was born to Lithuanian immigrant parents,  
who had come to America to escape the Tsarist regime.  
The famous traprock quarries in the vicinity of his  
hometown led to his youthful interest in minerals and  
eventually to a lifelong interest in mineralogy. In 1936,  
after graduation from college, he fulfilled a longtime desire  
to fly by enlisting in the U.S. Navy for flight training. His  
military career lasted until 1961 at which time he retired  
in the rank of Captain, U.S. Navy. However, at the end  
of World War II, Sinkankas began correspondence courses  
with the Gemological Institute of America. During this  
period through self-instruction he began faceting gems and  
writing numerous articles for various journals. This lead  
to his constructing specialized equipment to facet giant  
stones that are still among the very finest large gems ever  
created and are on display at the Smithsonian Institution  
in Washington. In 1971, with his wife Marjorie, he founded  
and operates an antiquarian earth science book selling  
business named Peri Lithon Books after THEOPHRASTUS’  
treatise. Sinkankas has popularized mineralogy and  
gemology through numerous articles and important books  
(see: *Gemology, an Annotated Bibliography* for a complete  
list). In recognition of his numerous contributions, he has  
received many awards. The mineral “Sinkankasite” was  
named in his honor in 1985.

REFERENCES: Sinkankas, *Gemology Bibliography*, 1993:  
2, p. 1163-5.



GEMOLOGY, 1993

**4441. — English, 1993.**

[rule] | Gemology | An | Annotated | Bibliography  
| [rule] | Volume 1 [-2] | By | John Sinkankas |  
[ornament] | The Scarecrow Press, Inc. | Metuchen,  
N.J. & London | 1993.

2 vols. [VOL 1] 8°: [2], [i]-xxxiii, [1], [1]-570 p.,  
colored frontispiece, illus.; [VOL 2] 8°: [4], 571-1179,  
[1] p., illus. At publication, two versions of the  
work were offered to the public. The 250 copies of the  
“Limited Edition” were boxed two-volume sets,  
bound in brown two-tone leather-grain, with colored

frontispiece, decorated endpapers and the autograph of the author. PAGE SIZE: 280 x 210 mm.

CONTENTS: [Vol 1] [1 pg], "Of the Two-Hundred-Fifty specially bound copies of | Gemology: An Annotated Bibliography, this is | Copy Number — inscribed to | — | John Sinkankas | ..."; [1 pg], Blank.; [Frontispiece, recto "Jacobs and Chatrian ...", verso "Rosenthal ..."]; [i-ii], Title page, verso "...Library of Congress Cataloging-in-Publication Data..."; [iii], "Contents."; [iv], Dedication to Marjorie Sinkankas.; v-vi, "Foreword"—authored by Richard T. Liddicoat.; vii-xiv, "Preface."; xv-xix, "Symbols | and | Abbreviations."; [xx], Blank.; xxi-xxv, "List of Serial | Publications."; [xxvi], Blank.; xxvii-xxxiii, "Bibliographies & | References Consulted."; [1 pg], Blank.; 1-570, Text [=entries A to Krasov].

[Vol 2] [2 pgs], Half title page, "[rule] | Gemology | An | Annotated | Bibliography | [rule]," verso blank.; [2 pgs], Title page, verso "...Library of Congress Cataloging-in-Publication Data..."; 571-1161, Text [=entries Kraus to Z.]; [1162], Blank.; 1163-1165, "Biographical Sketch | Of The Author."; [1166], Blank.; 1167-1179, "Index of Entries."; [1 pg], Blank.

VERY SCARCE. The first complete and annotated bibliography in the field of gemology. Previous to this work, the bibliography of gemology was only done in piecemeal fashion. However, this master bibliography brings into one reference 7,458 entries related to gemology, printed in all Western languages, together with major works printed in other languages. Most entries are described completely, with critical notes about the historical significance of the author and their work. Coverage includes books, journals, articles, pamphlets, auction catalogs, technical documents of the United States and other governments, reprints, publicity booklets, sales catalogs and other documents that extend the knowledge of gemology. Fully annotated, the bibliography also contains extensive biographical information on both the famous and almost forgotten authors in the history of gemology. Many entries have a useful commentary on the quality and significance of the work. Complete descriptive bibliography information is provided for most entries, including title, collation, pagination, size, contents listing and known repositories. The library upon which this bibliography was largely based was acquired in 1988 by the Gemological Institute of America in Carlsbad, California. Because of the close relationship between gemology and mineralogy, Sinkankas' remarkable reference has frequently been cited in this *Biobibliography* and hence its happy inclusion, even though it was published well after the normal cut of date of 1920.

REFERENCES: *Mineralogical Record*: ?? (1994), p. ??-?? [review].

#### SISTINI, Domenico.

##### 4442. — French, 1803 [French transl.].

Le Guide du Voyageur en Égypte, ou Description des Végétaux et des Minéraux qui existent en Égypte. Traduit de l'Italien de Sestini par M. ... [i.e., Count De Fleury?]. Paris, 1803.

8°: vii, 332 p., one plate.

VERY SCARCE. Apparently a French translation of

some unknown Italina travel guide to Egypt that includes descriptions of the plants, minerals, and animals of the country.

REFERENCES: BL: [1047.f.8.]. • LKG: XIV 888.

##### SIVERS, Heinrich Jakob. (BORN: 1708; DIED: 1758) *German theologian & naturalist.*

REFERENCES: ADB. • DBA: I 1189, 64-70. • Eitner, *Quellenlexikon*, 1959. • Gerber, *Historisch-biographisches Lexikon*, 1812-4. • Meusel, *Verstorbenen Deutschen Schriftsteller*, 1802-16. • WBI.

##### 4443. — Latin?, 1734.

Henrici Jacobi Sives ... Curiosa Niendorpiensia; sive, variarum rerum naturalium litoris Niendorpiensis descriptio et historia brevissima. (Specimen primum-sextum.) Lubecae, 1734.

6 parts. VERY SCARCE.

REFERENCES: BL: [436.a.36.]. • LKG: XVI 156 & XVII 141.

##### 4444. — German, 1738.

Henrich Jacob Sivers ... Kurzer Bericht von dem Schwedischen Marmor, welcher mit dem in denen Alterthümern berühmten Lacedämonischen Marmor mit Recht zu vergleichen stehet. Norrkjöping, 1738.

4°: 16 p. RARE.

REFERENCES: BL: [B.379.(4.)]. • LKG: XVI 306a.

##### 4445. — Danish?, 1738.

Henrich Jacob Sivers ... Korte Berettelse om then Swenska Marmoren, hwilken wid then i gamla Tider beromda Lacedemoniska Marmoren med retto kan förliknas. Utur Tyskan på Swensko öfversatt. Norrkjöping, 1738.

8°: 16 p. VERY SCARCE.

REFERENCES: BL: [B.260.(15.)]. • LKG: XVI 305.

##### SJÖGREN, Anton. (BORN: Lofta, Småland, Sweden, 25 November 1822; DIED: Nynäs, Södermanland, Sweden, 19 June 1893) *Swedish mineralogist & mining engineer.*

Sjögren studied in Lund from 1842 and took his Ph. D. 1847. Made a mining carrier and worked as blabla in the A and B ore-fields in Värmland, the province where he also was "bergmästare" until retiring 1889. Sjögren, like Igelström, was one of the pioneers in describing the minerals from the Långban type deposits, and published more than 20 articles on the subject.

REFERENCES: SBA: Scandinavian Biographical Archive: B-298, 131. • WBI.

##### 4446. — Swedish, 1865 [First edition].

Lärobok | i | Mineralogi | för | Elementarläroverk och tekniska skolor. | af | Anton Sjögren. | Bergmästare. | [rule] | Med 167 figurer i texten. | [Three crystal drawings on black bottom] | [ornate rule] | Fahlun. | På Carl Nordins förlag.

8°:  $\pi^3$  [1]-14<sup>8</sup> [15]<sup>1</sup>; 116<sup>l</sup>.; [2], [i]-iv, [1]-225, [1] p., 167 illus.

CONTENTS: [2 pgs], Title page, verso "Stockholm, Tryckt hos J. & A. Riis, 1865."; [i]-iv, Table of contents, errata.; 1-225, Text.; [1 pg], Blank.

VERY SCARCE. An popular elementary textbook of mineralogy for use in the technical schools of Sweden. [Entry by Johan Kjellman]

REFERENCES: NUC. • SWIM.

**4447. 2nd edition, 1874:** Kort Lärobok | i | Mineralogi | för | Elementar-läroverk och tekniska skolor | af | Anton Sjögren. | [rule] | Andra upplagan. | Med 167 figurer i texten. | [ornate rule] | Fahlun. | På Carl Nordins förlag. 8°:  $\pi^4$  1-13<sup>8</sup> 14<sup>4</sup> [15]<sup>1</sup>; 113 $\ell$ .; [i]-viii, [1]-217, [1] p., 260 illus.

CONTENTS: [i-ii], Title page, verso "Stockholm, Ivar Hæggströms boktryckeri, 1874."; [iii]-iv, Forword.; [v]-vii, Table of contents.; [viii], Errata.; [1]-217, Text.; [1] pg, Blank.

VERY SCARCE. JKjellman

REFERENCES: NUC. • SWIM.

**4448. 3rd edition, 1880:** Lärobok | i | Mineralogi | för | Elementar-läroverk och tekniska skolor | af | Anton Sjögren. | [rule] | Tredje upplagan. | Med 213 figurer i texten. | [rule] | Bearbetad och tillökad | Af | Hjalmar Sjögren | e.o. amanuens vid Lunds universitets mineralsamling. | [ornate rule] | Stockholm. | F.R. Skoglund's förlag.

8°:  $\pi^4$  1-13<sup>8</sup> 14<sup>4</sup> [15]<sup>1</sup>; 113 $\ell$ .; [i]-viii, [1]-218 p., 213 illus.

CONTENTS: [i-ii], Title page, verso "Norrköping 1880. M. W. Wallberg & Comp. boktryckeri."; [iii]-vi, Forword.; [vii]-viii, Table of contents, Errata.; [1]-218, Text.

VERY SCARCE. JKjellman

REFERENCES: NUC. • SWIM.

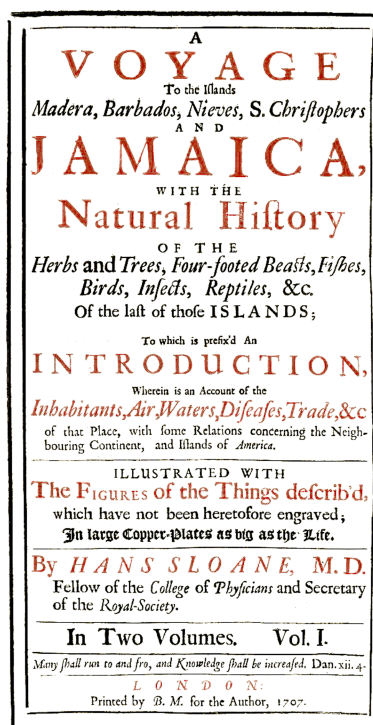
**SLOANE, Hans, Sir.** (BORN: Killyleagh, County Down, Ireland., 16 April 1660; DIED: London, England, 11 January 1753) *English physician & naturalist.*

Sloane was a wealthy physician who devoted himself to natural history studies. He became a fixture in the early to middle 18th century London scientific circles, becoming secretary of the Royal Society. On his death he left his vast collections to the nation, helping to build the British Museum into a world institution.

REFERENCES: Anon., "Sir Hans Sloane," *British Museum Quarterly*, 18 (1953), 1-26. • BBA: I 1008, 289-384. • De Beer, G.R., *Sir Hans Sloane and the British Museum*. London, 1953. • DNB: 18, 376-80. • Poggendorff: 2, col. 942. • Sloan, W.R., "Sir Hans Sloane, F.R.S.: Legend and Lineage," *Notes and Records of the Royal Society*, 35 (1980), 125-33. • WBI.

#### 4449. — English, 1707-25.

[Contained within a double rule box:] [In black:] A | [in red:] Voyage | [in black:] To the Islands | Madera, Barbados, Nieves, S. Christophers | And | [in red:] Jamaica, | [in black:] With The | [in red:] Natural History | [in black:] Of The | Herbs and Trees, Four-footed Beasts, Fishes, | Birds, Insects, Reptiles, &c. | Of the last of those Islands; | To which is prefix'd an | [in red:] Introduction, | [in black:] Wherein is an account of the | [in red:] Inhabitants, Air, Waters, Diseases, Trade, &c. | [in black:] of that Place, with some Relations concerning the Neighbouring Continent, and Islands of America. | [rule] | Illustrated With | [in red:] The Figures of the Things describ'd, | [in black:] which have not been heretofore engraved; | In large Copper-Plates as big as the Life. | [rule] | [in red:] By Hans Sloane, M.D. | [in black:] Fellow of the College of Physicians



A VOYAGE, 1707

and Secretary | of the Royal- Society. | [rule] | In Two Volumes. Vol. I. | [rule] | Many shall run to and fro, and Knowledge shall be increased. Dan. xii.4. | [rule] | [in red:] London: | [in black:] Printed by B.M. for the Author, 1707.

2 vols. [VOL 1: 1707] 2°:  $\pi^2$  A-C<sup>2</sup> a<sup>2</sup> b-pp<sup>2</sup> qq<sup>1</sup> B-Xxx<sup>2</sup>; 218 $\ell$ .; [16], i-cliv, 1-264 p., 285 double-page or folding engraved plates, the majority by Michael Vander Gucht or John Savage, including a large folding map, mounted on guards throughout. Title in red and black. [VOL 2: 1725] 2°:  $\pi^2$  a-d<sup>2</sup> e<sup>1</sup> A-6A<sup>2</sup> 6B<sup>1</sup> 6C-6K<sup>2</sup>; 260 $\ell$ .; [4], i-xviii, 1-466, 469-499, [1] p. (195 as '185', 232 as '322', 472 as '572').

CONTENTS: [Vol 1] [2 pgs], Title page, verso blank.; [1 pg], Dedication.; [1 pg], Blank.; [12 pgs], Preface.; i-cliv, Introduction.; 1-264, Text.

[Vol 2] [2 pgs], Title page, verso blank.; [1 pg], Dedication.; [1 pg], Blank.; [18 pgs], Introduction.; 1-499, Text.; [1 pg], Errata.

RARE. Sloane's most important published work containing "the earliest representations of the flora and fauna of Jamaica and neighbouring islands" (Hunt). Physician, scientist, botanist and collector of note, Sir Hans Sloane went to the West Indies in 1687, staying for 15 months as physician to the Governor of Jamaica, the Duke of Albemarle. Sloane returned to England with 800 dried specimens of plants for his herbarium. Vander Gucht's plates were worked up from drawings of these plants by Everhard Kickius [*fl.* 1701-1705]. The text leaves are mounted on guards. Sloane was interested in all aspects of the natural history of Jamaica including

## SMITH

its scant mineralogy.

REFERENCES: Hunt Botanical Catalog: no. 417. • LKG: XIV 893. • Nissen (ZBI): no. 1854. • Sabin, *Dictionary*, 1868-1936: no. 82169.

**4450. German transl., 1764:** Britisches Museum, nebst der Beschreibung des berühmten naturalien u. antiquitäten Cabinets des Hrn. Ritters Hans Sloane, zum Unterricht derer welche solches mit Nutzen besehen wollen. Aus dem Englischen nach der neuesten Ausgabe ... Berlin, Bey Friedr. Wilh. Birnstiel, 1764.

8°: \*-\*\*8 A-T<sup>8</sup> U<sup>2</sup>; 154ℓ.; 270, [38] p. Includes index.

VERY SCARCE. Translated from the English.

### SMITH, Aquila.

REFERENCES: Allibone, *Dictionary of English Literature*, 1859-71. • BBA: I 1011, 241-242; II 1768, 370. • Boase, *Modern English Biography*, 1892-1921. • WBI.

### 4451. — English, 1862.

The Blowpipe Vade Mecum. | [rule] | The | Blowpipe Characters Of Minerals: | Deduced From The Original Observations Of | Aquila Smith, M.D., M.R.I.A. | Vice-President Of The King And Queen's College Of Physicians. | Alphabetically Arranged And Edited | By | The Rev. Samuel Haughton, M.A., F.R.S., | President Of The Geological Society Of London; | And | Robert H. Scott, M.A., | Secretary Of The Geological Society Of Dublin. | [Ornament, showing an ancient Egyptian working a blowpipe.] | London: | Williams & Norgate, Henrietta-St., Covent Garden. | 1862.

8°:  $\pi^2$  B-I<sup>4</sup> K<sup>1</sup>: 35ℓ.; [4], [1]-65, [1] blank, title vignette. PAGE SIZE: 215 x 130 mm.

CONTENTS: [2 pgs], Title page, verso "Dublin: Printed at the University Press by M.H. Gill."; [1 pg], "Preface."; [1 pg], Blank.; [1]-14, "Introduction."; [15]-57, "The Blowpipe Characters of Minerals."; 58-65, "Appendix: Containing a Pyrognostic Arrangement of Simple Minerals hitherto found in Ireland."; [1 pg], Blank.

VERY SCARCE. The introduction contains a short history of the blow-pipe.

REFERENCES: NUC: 550, 402-3.

**SMITH, John Lawrence.** (BORN: Charleston, South Carolina, U.S.A., 17 December 1818; DIED: Louisville, Kentucky, U.S.A., 12 October 1883) *American geologist, mineralogist & chemist.*

Through marriage, Smith became independently wealthy and was therefore free to pursue whatever scientific research he choose.

REFERENCES: ABA: I 1494, 50-74; II 572, 57-61. • *American Chemists & Chemical Engineers*: 1, 447-8 [by W.D. Miles]. • *Biographical Memoirs of the National Academy of Science*: 2 (1886), 219-48, biblio. • Cleavelly, *World Palaeontological Collections*, 1983: 268. • DAB: 17, 304-5 [by T.C. Johnson, Jr]. • Elliott, *Biographical Index*, 1990: 215. • Elliott, *Biographical Dictionary*, 1979: 238-9. • Ireland, *Index to Scientists*, 1962. • Meisel, *American Natural History*, 1924-9: 1, 231 [other refs.]. • *National Cyclopaedia of American Biography*: 6, ???. • Sampey, J.R., "J. Lawrence Smith," *Journal of Chemical Education*, 5 (1928), 123-8. • Sarjeant, *Geologists*, 1980: 3, ????. • WBI.

### 4452. — English, 1873 [First edition].

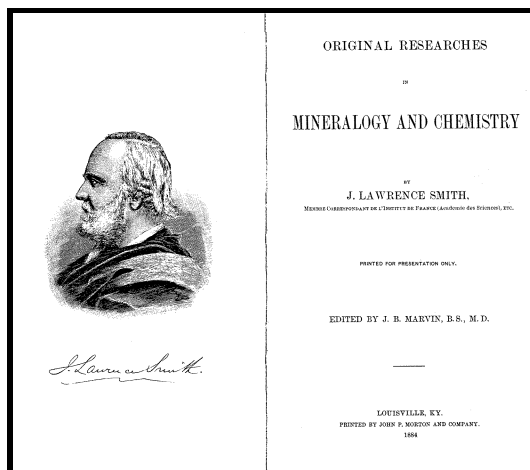
Mineralogy And Chemistry: | Original Researches | By Prof. J. Lawrence Smith. | Of Louisville. | Louisville, Ky.: | Printed By John P. Morton And Company. | 1873.

8°:  $\pi^2$  2-25<sup>8</sup> 267; 201ℓ.; [1]-401, [1] p., illus. PAGE SIZE: 220 x 140 mm.

CONTENTS: [1-2], Title page, verso blank.; [3]-4, "Contents."; 5-401, Text.; [1 pg], Blank.

VERY SCARCE. This volume reprints 46 of Smith's mineralogical and chemical papers published between 1841 and 1872.

REFERENCES: BMC: 4, 1949.



ORIGINAL RESEARCHES, 1884

### 4453. — English, 1884 [Posthumous edition].

Original Researches | In | Mineralogy And Chemistry | By | J. Lawrence Smith, | Membre Correspondant de l'Institut de France (Academie des Sciences), etc. | Printed For Presentation Only. | Edited By J.B. Marvin, B.S., M.D. | [short rule] | Louisville, Ky. | Printed By John P. Morton And Company. | 1884.

8°:  $\pi^{15}$  c<sup>4</sup> D<sup>2</sup> 1-39\* 403; 336ℓ.; [i]-xl, [2], [1]-630 p., frontispiece (portrait of Smith), one folding map (p. 584), illus. PAGE SIZE: 224 x 146 mm.

CONTENTS: [i-ii], Half title page, "Original Researches | In | Mineralogy and Crystallography. | J. Lawrence Smith," verso blank.; [Frontispiece]; [iii-iv], Title page, verso blank.; [v]-vii, "Contents."; [viii], Blank.; [ix]-xiii, "A Biographical Sketch Of Professor | J. Lawrence Smith," by J.B. Marvin, M.D.; [xiv]-xxi, "In Memory Of J. Lawrence Smith, M.D.," by Middleton Michel, M.D.; [xxii]-xl, "Sketch Of The Life And Scientific Work | Of Dr. J. Lawrence Smith," by B. Silliman.; [1 pg], "Original Researches."; [1 pg], Blank.; [1]-611, Text.; [612]-621, "List Of Papers."; [622]-630, "Index."

VERY SCARCE. Edited by J.B. Marvin. This is a privately printed posthumous collection of the Smith's papers in mineralogy and chemistry. It includes a

biography and bibliography of Smith, as well as a fine frontispiece portrait.

REFERENCES: BMC: 4, 1949. • USGS Library Catalog.

**SMITHSON, James Louis Macie.** (BORN: Paris, France, 1765; DIED: Genoa, Italy, 1829) *English chemist & mineralogist.*

REFERENCES: Allibone, *Dictionary of English Literature*, 1859-71. • BBA: I 1019, 21-23. • Poggendorff: 2, cols. 946-7. • Watt, *Bibliotheca Britannica*, 1824. • WBI.

#### 4454. — English, 1879.

Smithsonian Miscellaneous Collections | — 327 —  
| The Scientific Writings | Of | James Smithson. |  
[rule] | Edited By | William J. Rhees. | [ornament]  
| Washington: | Published By The Smithsonian  
Institution. | 1879.

8°: [i]-vii, [1], [1]-159, [1] p., frontispiece (profile of Smithson), illus.

CONTENTS: [Frontispiece].; [i-ii], Title page, verso "Judd & Detweiler, Printer's | Washington, D.C."; iii-iv, "Advertisement."; v-vii, "Contents."; [1 pg], Blank.; [1]-155, Text.; [156], Blank.; 157-159, "Index."; [1 pg], Blank.

RARE. A reprinting of James Smithson's scientific of writings together with "A memoir on the scientific character and researches of James Smithson" by Walter R. Johnson (p. 123-141) and another "On the works and character of James Smithson" by J. R. McD. Irby (p. 143-155.). Most of the original writing deal with chemistry, including the composition of various minerals.

REFERENCES: NUC. • NYPL Catalog.

**SÖCHTING, Johann Wilhelm Edmund.** (BORN: Cönnern near Halle, Germany, 13 January 1830; DIED: ) *German gentleman.*

Educated with a Ph.D., Söchtig was a man of independent means. His interest in life was mineralogy to which he contributed a number of papers on inclusions and pseudomorphs.

REFERENCES: DBA: II 1232, 190-192. • Poggendorff: 2, col. 953 & 3, 1263. • WBI.

Die Einschlüsse von Mineralien in krystallisirten Mineralien. ... (Haarlem, 1854).

See: Blum, Johann Reinhard.

#### 4455. — German, 1860.

Die | Einschlüsse Von Mineralien | In |  
Krystallisirten Mineralien, | Nebst Betrachtungen  
| Über Die | Entstehung Von Mineralien Und  
Gebirgsarten. | Von | Dr. E. Söchting. | [tapered  
rule] | Freiberg. | Buchhandlung J.G. Engelhardt.  
| (Bernhard Thierbach.) | 1860.

8°:  $\pi^3$  1-22<sup>8</sup> 23<sup>8</sup>; 182 $\ell$ .; [i]-vi, [1]-357, [1] p. PAGE  
SIZE: 210 x 134 mm.

CONTENTS: [i-ii], Half title page, "Dr. E. Söchting. | Die Einschlüsse von Mineralien. | [rule].," von blank.; [iii-iv], Title page, verso blank.; [v]-vi, "Vorwort."; [1]-357, Text.; [1 pg], "Leipzig. | Druck von A.Th. Engelhardt."

VERY SCARCE. Mineral inclusions.



SOHNCKE

#### SOCIETÄT FÜR DIE GESAMMTE MINERALOGIE.

See: Jena, Germany. Societät Für Die Gesammte Mineralogie.

**SOHNCKE, Leonhard.** (BORN: Halle, Germany, 22 February 1842; DIED: München, Germany, 1 November 1897) *German crystallographer, physicist & meteorologist.*

Sohncke's was the son of a university mathematician, and was introduced at an early age to the study. During his studies at the University of Königsberg, F. NEUMANN introduced him to the studies of mineralogy and crystallography. In 1866, he received his Ph.D. in physics. He was appointed to a position at the Technische Hochschule in Karlsruhe. In 1883, Sohncke accepted a similar position at the University of Jena, and in 1886 he became professor of physics at the Technische Hochschule in München, where he remained until his death. By several accounts, Sohncke was an outstanding teacher, who inspired his students in their studies. He was also interested in the flight of Aerial balloons, and administrated a München society that encouraged this activity.

REFERENCES: ADB: 54, 377-9. • DBA: I 1192, 357-363; II 1233, 105-109. • DSB: 12, 511-2 [by J.G. Burke]. • *Meteorologische Zeitschrift*: 15 (1898), 81-4. • Poggendorff: 3, 1263-4 & 4, 1412. • WBI. • *World Who's Who in Science*: 1576.

#### 4456. — German, 1879.

Entwicklung | Einer | Theorie Der Krystallstruktur  
| Von | Dr. Leonhard Sohncke, | Ord. Profes-  
sor Der Physik Am Polytechnikum Zu Karlsruhe.  
| [ornament] | Mit 55 Holzschnitten Im Text Und 5  
Lithogr. Tafeln. | Leipzig, | Druck Und Verlag Von  
B.G. Teubner. | 1879.

8°: a<sup>4</sup> 1-15<sup>8</sup> 16<sup>4</sup>; 128 $\ell$ .; [i]-viii, [1]-247, [1] p., 5  
folding plates.

CONTENTS: [i-ii], Title page, verso "Das Recht der Uebersetzung wird vorbehalten."; [iii]-v, "Vorwort."—dated March 1879.; [vi], "Angabe der Stellen, wo folgende theils neue, theils nicht | allgemein bekannte Benennungen erklärt sind."; [vii]-viii, "Inhalt."; [1], "Abschnitt I. |

## SOKOLOV

Vorbereitende Betrachtungen.”; [2], Blank.; [3]-60, Text.; [61], “Abschnitt II. | Konstruktion der regelmässigen allseitig | unendlichen Punktsysteme.”; [62], Blank.; [63]-180, Text.; [181], “Abschnitt III. | Prüfung der Theorie an der Erfahrung.”; [182], Blank.; [183]-247, Text.; [1 pg], “Erklärung der Tafeln.”; [At end], 5 folding plates.

VERY SCARCE. A major contribution to crystallography was *Entwicklung einer Theorie der Krystallstruktur*, which derived the extension of the lattice theory of AUGUSTE BRAVAIS to arrive at sixty-five of the 230 possible space groups. The fourteen Bravais lattices described only seven of the possible thirty-two classes of external symmetry. Just how the chemical atoms were arranged within the unit cells formed by the space lattice remained a matter of speculation, however. In his studies of internal symmetry, Sohncke realized that previous investigators had looked upon internal symmetry from a completely external orientation. They had imposed, as a condition of their symmetry, translational equivalence, and Sohncke saw that this restriction was not justifiable. Inasmuch as symmetry is defined as the equivalence of internal configurations, it is of no consequence whether the direction of one's view has been altered in being transported from one point to another within an object. Thus Sohncke insisted that the view of the system of points is the same from every point and that it need not be a parallel view.

Sohncke eventually arrived at sixty-six different spatial arrangements of points by introducing two new symmetry elements (this number was reduced in 1888 to 65 when two of the elements were shown to be equivalent). The first was the screw axis, in which a rotation around an axis is combined with a translation of the system along the axis. The second was the glide plane, in which the reflection in a mirror plane is combined with a similar translation without rotation along the axis. However, Sohncke failed to consider two additional symmetry elements of the thirty-two classes of external symmetry: rotation-reflection and rotation-inversion axes. Their inclusion by EVGRAF STEPANOVICH FYODOROV and almost simultaneously by ARTHUR SCHOENFLIES and WILLIAM BARLOW in the late 1880's added the additional 165 space groups, for the actual total of 230 space groups. It was Sohncke's work as published in *Die Entwicklung einer Theorie der Krystallstruktur* that placed these later researchers on the correct path.

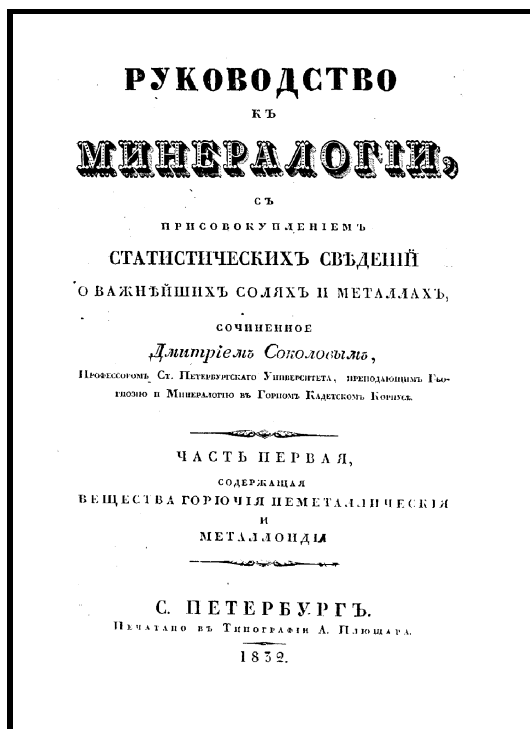
REFERENCES: Burckhardt, *Symmetrie der Kristalle*, 1988: 65-72. • Burke, *Origins of the Science of Crystals*, 1966: 171-72. • Dana's 7th (Bibliography): 81. • DSB: 12, 511-12 [by J.G. Burke]. • Lima-de-Faria, *Historical Atlas of Crystallography*, 1990: 48-49.

**SOKOLOV, Dmitrii Ivanovich.** (BORN: St. Petersburg, Russia, 1788; DIED: St. Petersburg, Russia, 1 December 1852) *Russian geologist and mineralogist.*

After the death of his father in 1796, Sokolov was sent to the preparatory class of the St. Petersburg Mining School, from which he graduated in 1805. After graduation, he worked for a time as an assayer in the Academy's laboratory, and then he began giving lectures first in metallurgy and assaying and later in geognosy and mining. Soon, a position as a permanent instructor of the Academy was offered and accepted. Sokolov retained the job until

1841. From 1822 until 1844, he also held a professorship at the University of St. Petersburg. He was a founder and the first editor of the *Gornyi Zhurnal* (Mining Journal), which was one of the first specialized periodicals published in Russia. The principal geographical work Sokolov is remembered for relates to grouping the red stratigraphic beds of the Trans-Volga Region into its own independent system, which was named “Permian” in 1841 by Sir Roderick Murchison [1792-1871]. Sokolov was a founding member of the ST. PETERSBURG MINERALOGICAL SOCIETY in 1817, and he was also elected to the Russian Academy of Science in 1839.

REFERENCES: DSB: 12, 513-5 [by V.V. Tikhomirov]. • *Great Soviet Encyclopedia*: 24, 280. • Moliavko, *Geologi Biograficheskii*, 1985: p. 250-1. • Radkevich, E.A., *Dmitry Ivanovich Sokolov 1788-1852*. Moscow, 1959, 102 p. • Tikhomirov, V.V., “Dmitrii Ivanovich Sokolov: K 100-letiiu so dnia smerti,” *Byulleten Moskovskogo ob-va ispytatelei prirody: Otdel geologicheskii*, 27 (1952), no. 6. • Zvorykin, *Biograficheskii Slovar*, 1958: 2, 233.



РУКОВОДСТВО К МИНЕРАЛОГИИ, 1832

### 4457. — Russian, 1832.

Руководство | Къ | Минералогіи, |  
Съ | Присовокупленіемъ | Статистическихъ  
Свѣдешъ | О Бажиѣйшихъ Соляхъ И  
Металлохъ, | Сочиненное | Дмимріемъ  
Соколовымъ, | [...2 lines of titles and memberships...]  
| [ornate rule] | Часть Правая, | Содержащая  
| Вещества Горючія Пеметаллическія | И |  
| Металлоиды. | [ornate rule] | С. Петербургъ.  
| Печатаю въ Типографіи А. Плюшера. |  
| [ornate rule] | 1832.

[TRANSLITERATED TITLE:]

Rukovodstvo | K | Mineralogii, | S |  
Prnsvoakupleniem | Statisticheskikh Svedeshi | O  
Bazhieishikh Soliakh I Metallokh, | Sochineppoe  
| Dmimriem Sokolovymo, | [...2 lines of titles and  
memberships...] | [ornate rule] | Chast' Pravaia,  
| Soderzhashchaia | Veshchestva Gornuchiia  
Pemetallicheskii | I | Metalloidy. | [ornate rule] | S.  
Peterburg. | Pechataio v Tipografii A. Iluoshcha  
ra. | [ornate rule] | 1832.

2 vols. [VOL 1] 8°:  $\pi^2$  A<sup>8</sup> B<sup>4</sup> a-b<sup>8</sup> 1-36<sup>8</sup> 37<sup>6</sup>; 324 $\ell$ .;  
[4], [I]-XXIV, [I]-XXXII, [1]-586, [2] p.; [VOL 2] 8°:  $\pi^1$   
a<sup>8</sup> b<sup>5</sup> 1-32<sup>8</sup> 33<sup>6</sup> 1<sup>6</sup>; 282 $\ell$ .; [2], [XXXV]-LX, [587]-[1110],  
[1]-13, [1] p., one plate (6 xl figs.). PAGE SIZE: 210 x  
126 mm.

CONTENTS: [Vol 1] [2 pgs], Title page, verso "Пе-  
чатать Позволяея: | ..."—signed A. Krylov.; [1 pg],  
Dedication.; [1 pg], Blank.; [I]-XXIV, "Предисловие."  
[preface].; [I]-XXXII, "Система Минералловъ." [outline  
of mineral system].; [1]-579, Text.; [580], Blank.; [581]-586,  
"Дополнения | Къ Описанію | Минералловъ."; [1 pg],  
"Погрѣшности."; [1 pg], Blank.

[Vol 2] [2 pgs], Title page, verso "Печатать  
Позволяея: | ..."—signed A. Krylov.; [XXXV]-LX,  
"Система Минералловъ." [systematic overview of the  
metals].; [587]-1105, Text, being a descriptive mineral-  
ogy of the metals.; [1106], Blank.; [1107]-[1110], "Допол-  
нения."; [1]-13, "Реестръ | Россійскихъ и Азіяцкихъ  
Назбаній."; [1 pg], Blank.; [At end], One plate.

TRANSLATED TITLE: Handbook on mineralogy with  
additional statistical data on the most important salts and  
metals.

VERY SCARCE. Sokolov's *Handbook of Mineral-  
ogy* is an important contribution to the chemical clas-  
sification of minerals. An early career as an assayer  
allowed Sokolov to view the classification problem of  
minerals in a new way. He was a strong advocate of the  
atomistic concept, and believed that the physical prop-  
erties of minerals depended upon the internal structure  
of the atoms. Therefore, Sokolov placed the primary  
importance for classification upon a mineral's chemical  
composition and classified minerals according to their  
cations. By grouping minerals with similar properties  
under this arrangement, he outlined in rough terms a  
natural ordering of atomic properties that foreshadowed  
Mendeleev's periodic system.

Of secondary importance were the physical prop-  
erties of minerals. These, Sokolov correctly reasoned,  
were the manifestation of the chemical structure. Thus  
crystallography, color, luster, hardness, cleavage, etc.  
although mentioned throughout his classification are  
used primarily for the actual determination of the min-  
eral species rather than its placement within the sys-  
tem. For the time, this was a remarkable idea consid-  
ering natural history methods of classification were then  
predominant throughout Europe and America.

REFERENCES: DSB: 12, 513-5. • Povarennykh, A.S.,  
"On the crystallochemical classification of borates" (pp.  
303-308), in: Battey, M.H. & S.I. Tomkeieff, eds., *Aspects  
of theoretical mineralogy in the U.S.S.R. A collection of papers  
translated from the Russian*. New York, 1964.

4458. Supplement, 1838: Дополнения | Къ | Минера-  
логіи, | Изданою Въ 1832 | Профессоромъ. |

Сokolovымъ. | Въ дополненіяхъ этихъ показаны  
между прочимъ всѣ глав- | ния употребленія мин-  
ераловъ и веществъ изъ хихъ из- | влаекаемыхъ.  
| [ornate rule] | Санктпетербургъ, | Печатано Въ Ти-  
пографіи Императорской | Академіи Наукъ. | 1838.

[TRANSLITERATED TITLE:]

Dopolneniia | K | Mineralogii, | Izdaniio V 1832 | Profes-  
sorom. | Sokolovym. | V dopolneniakh etikh pokazany  
mezhdru prochm vse glav- | nia upotrebleiia mineralov  
i veshchestv iz khikh iz- | vlaekaemykh. | [ornate rule] |  
Sanktpeteburg, | Pechatano V Tipografii Imperatorskoï |  
Akademii Nauk. | 1838.

8°:  $\pi^1$  1-8<sup>8</sup>; 65 $\ell$ .; [2], 1-126, [2] p. PAGE SIZE: 217 x  
127 mm.

CONTENTS: [2 pgs], Title page, verso "Печатать  
Позволяея, | ..."—signed S. Kymorga.; 1-126, Text.;  
[2 pgs], "Проиуски и онечамки Бъ Дополненіяхъ къ  
| Минералогіи."

TRANSLATED TITLE: Supplement to mineralogy  
published in 1832.

VERY SCARCE. This *Supplement to Mineralogy* was  
written to extend and update Sokolov's previous *Handbook  
of Mineralogy* (St. Petersburg, 1832). In this volume,  
Sokolov pointed out the similarity of the newly discovered  
mineral "Rhodizite" to the species boracite, and writes: "It  
is probable that ... magnesia has been partially replaced  
by lithia and that this is in agreement with its occurrence  
in lithium tourmaline, in one deposit with lithium mica"  
(Povarennykh).

REFERENCES: DSB: 12, 513-5. • Povarennykh, A.S.,  
"On the crystallochemical classification of borates" (pp.  
303-308), in: Battey, M.H. & S.I. Tomkeieff, eds., *Aspects  
of theoretical mineralogy in the U.S.S.R. A collection of papers  
translated from the Russian*. New York, 1964.

### SOLINUS, Caius Julius. Roman geographer.

Little is known about the life of the third-century  
Roman geographer and linguist Caius Julius Solinus.

REFERENCES: ABF: I 952, 141-147. • Barr, *Index  
to Biographical Fragments*, 1973: p. 237. • *Biographie  
Universelle*: 39, ??.. • Dezobry, *Dictionnaire de Biographie*,  
1889. • DSB: 12, 303-6. • *Encyclopaedia Britannica*, 11th  
edition. • Fischer, *Gesteins- und Lagerstättenbildung*, 1961:  
p. ??.. • Kobell, *Geschichte der Mineralogie*, 1864: p. ??.. •  
Lambrecht & Quenstedt, *Catalogus*, 1938: p. 395. • *Nouvelle  
Biographie Générale* (Hoefer): 43, ??.. • Poggendorff: 2, cols.  
902-3, 1441 & 3, 1236. • WBI.

### 4459. — Latin, 1473 [First edition].

Polyhistor sive De mirabilibus mundi. Venice,  
Nicolaus Jenson, 1473.

4°: [1-7<sup>8</sup> 8<sup>12</sup>] (unsigned); 68 $\ell$ . 33 lines.

EXTREMELY RARE. The Roman Solinus compiled  
a geography about the third century. He initially  
called his first manuscript *De Mirabilibus Mundi* (The  
Wonders of the World). Later he changed the name  
to *Collectanea Rerum Memorabilium* (Collection of  
Curiosities) that contains a broad description of the  
ancient world, with many remarks on the natural  
history, religion, and social issues of his time. Solinus  
does not name his sources, but the greater part of  
the text, which is arranged on a geographical plan, is  
mainly derived from Pliny's *Natural History* and the  
*Choreographia* (Geography) of Pomponius Mela.

Solinus begins his work with a very valuable  
section that gives a description of the mythical  
prehistory of the establishment of the Roman Republic  
by Romulus after the Etruscan rulers were conquered.  
He continues the history to the time of Augustus. A





POLYHISTOR, 1473

general treatise on humanity follows that treats the peoples of Italy, Greece, Germania, Gallica, Britannia, and Hispania, the last also has details of northern Africa. Asia, Arabia, Egypt, Syria, the Near East, and India are also described. The author wanted to maintain the readers attention and therefore paid special attention to the peculiarities of the people and places discussed. Solinus peppers his commentary with anecdotal information about the land, animals, plants, and minerals of the various regions. Descriptions of several dozen precious stones, which come from Pliny, are interspersed throughout the work with placement under the countries where the stones are supposed to be found. Later, in the sixth century, these stones would be collected together again by Isidore of Seville for inclusion in Book XVI of his *Etymologiae*.

A revised version of the original text appeared in the sixth century. This version includes at the start a letter purportedly from Solinus that acts as an introduction. In it, the work is awkwardly renamed *Polyhistor seu de Mirabilibus Mundi* (Multi-History of the Wonders of the World). Throughout the Middle Ages both versions of the text circulated widely and in some cases 'Polyhistor' was taken for the author's name. The broad sweep of its coverage made it a popular manual of its subject, and as a result the book had tremendous influence during the Middle Ages, being, for example, a principle source for Isidore of Seville. An important commentary on this work by Claude de Saumaise appeared in his *Plinianae Exercitationes*

(1689). The best edition edited by Th. Mommsen was published in 1895; it contains a valuable introduction to the extant manuscripts, the authorities used by Solinus, and the subsequent compilers.

REFERENCES: BMC XV: V 173. • Goff: S-615. • Hain, *Repertorium Bibliographicum*, 1826-38: no. 14877. • Thienen, *Incunabula in Dutch Libraries*, 1983: no. 4147. • IGI: no. 3103. • Polain, *Catalogue*, 1932: no. 3562. • Walter, H., "Die Collectanea Rerum Memorabilium des C. Iulius Solinus. Ihre Entstehung und die Echtheit ihrer Zweifassung," *Hermes. Zeitschrift für klassische Philologie*, Einzelschriften, 22 (1969), xii, 92 p.

**4460. 23 August, 1491:** Polyhistor, sive Collectanea de memorabilibus aut mirabilibus mundi Mirabilia urbis Romae. Venecia. 23 agosto, 1491.

8°: VERY RARE.

REFERENCES: NUC.

**4461. 1498:** Collectanea rerum memorabilium. Venice, [Joannes Rubeus Vercellensis], anno Domini 1498 die .x. Marci.

4°: a-e8 f6; 46l. Leaves printed on both sides. 40 lines per page. VERY SCARCE.

REFERENCES: BMC XV: 5, 420. • Goff: S-622. • Hain, *Repertorium Bibliographicum*, 1826-38: no. 14885. • IGI: no. 9091.

**4462. 1520:** C. Iulii Solini Polyhistor, seu rerum orbis memorabilium collectanea. Adiectus praeterea in libri calce est Index, summam totius pene operis carptim insumans, ut studioso lectori facile inventu sit quod quaerit atque depromptu, mendis quibus antehac scatebat pro virili expurgatis emaculatis. Cologne, Eucharius Cervicornum and Heronem Fuchs, 1520.

4°: a-d8, e-h4, i8, k-m4, n8, o-q4, r8, s4, a-b6.; [I]-XCII, [12]l. Engraved titlepage and initial.

VERY SCARCE. This edition by Giovanni Camers who revised the text without the assistance of any early manuscripts, but nevertheless his comments are filled with scholarship. He divides his text into 70 chapters and includes a comprehensive index.

REFERENCES: Graesse, *Trésor de Livres Rares*, 1859-69: 6/1, 431. • Proctor, *Index*, 1898-1906: no. 10492. • Schweiger: 2, 959. • VD16: 16: S6964.

**4463. 1520:** Iulii Solinii Polyhistor. Cum Indice summam omnia complectente. COLOPHON: Vienna, J. Singriener for Lucas Alantse, 1520.

VERY RARE. Edited by Johannes Camers.

REFERENCES: Adams, *Cambridge Books*, 1967: S-1391. • Adams, *Cambridge Books*, 1967: M-1055. • BM/STC German: p. 608.

**4464. 1543:** Polyhistor, Rerum Toto Orbe Memorabilium Thesaurus Locupletissimus. Basel, Michael Isingrin, 1543.

2°: [20], 230, [2] p., two folding maps and eighteen in-text maps. Woodcut vignette on titlepage and final leaf.

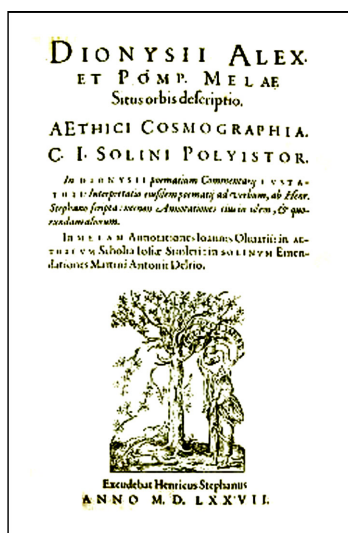
RARE. Second edition, after the first of 1538. A landmark in the mapping of North America, this collection of geographic accounts, edited by Sebastian Münster, contains "the earliest representation of the north-west coast of America on a printed map" (Burden). It takes the form of a land mass in the upper right corner of the folding "Asia Major" map, extending northwest, labeled "Terra Incognita," and shown with a small bay, trees, and hills. The cartographer of the map is unidentified, though some asserts that it was drawn by Münster.

REFERENCES: BL.

**4465. 1577:** C.I. Solini Polyhistor. [Geneva] Excudebat Henricus Stephanus, 1577.

4°: [8], 158, [16] p.; [8], 48 p.; 152 p.. Estienne device to title. Greek and Latin. RARE.

### English Editions



POLYHISTOR, 1577

**4466. 1587:** The excellent and pleasant worke of Iulius Solinus Polyhystor Contayning the noble actions of humaine creatures, the secretes & providence of nature, the description of countries, the maners of the people: with many meruailous things and strange antiquities, seruing for the benefit and recreation of all sorts of persons. Translated out of Latin into English, by Arthur Golding. Gent. At London: Printed by I. Charlewoode for Thomas Hacket, 1587.

4°: A-Y4 2A-2F4 2G2; [228] p. RARE.

**Facsimile reprint, 1955:** The excellent and pleasant worke, Collectanea rerum memorabilium of Caius Julius Solinus, translated from the Latin (1587) by Arthur Golding. A facsimile reproduction with an introd. by George Kish. Gainesville, Fla., Scholars' Facsimiles & Reprints, 1955. [8] p., facsim.: [227] p.

REFERENCES: STC: no. 22896.

**SOMMERFELDT, Ernst.** (BORN: Königsberg, Prussia, Germany, 11 July 1877; DIED: ) *German mineralogist.*

Sommerfeldt studied at Königsberg from 1896 to 1898. In 1900, he received his Ph.D., becoming assistant for physical chemistry and mineralogy at the University of Göttingen in 1901.

REFERENCES: DBA: II 1235, 94-95. • Poggendorff: 4, 1415, 5, 1189 & 6, ??? • WBI.

**4467. — German, 1906.**

Geometrische Kristallographie von Ernst Sommerfeldt; mit 31 Tafeln und 69 Abbildungen im Text. Leipzig, Verlag von Wilhelm Engelmann, 1906.

x, 139, [1] p., 31 leaves of plates: ill. "Literatur- und Formelverzeichnis": p. [130]-135.

VERY SCARCE. Crystallography, Mathematical.

**4468. — German, 1907.**

Physikalische Kristallographie vom Standpunkt der Strukturtheorie, von Ernst Sommerfeldt. Leipzig, C. H. Tauchnitz, 1907.

vi p., 1 l., 131, [1] p.: ill. VERY SCARCE.

**4469. — German, 1911.**

Die Kristallgruppen | Nebst Ihren Beziehungen Zu Den | Raumgittern | Von | Dr. E. Sommerfeldt | Professor Der Mineralogie An Der Universität Tübingen | [short rule] | Mit 14 Stereoskop-Aufnahmen Und 50 Figuren | [ornament] | Dresden 1911 | Verlag Von Theodor Steinkopff.

8°: vii, 79: ill. VERY SCARCE.

REFERENCES: Dana's 7th (Bibliography): 81.

**4470. — German, 1911.**

Praktikum der experimentellen mineralogie mit berücksichtigung der kristallographischen und chemischen grenzgebiet von dr. Ernst Sommerfeldt. Berlin, Gebrüder Borntraeger, 1911.

xi, 192 p.: illus., pl. VERY SCARCE.

**SORET, Charles.** (BORN: Geneva, Switzerland, 23 September 1854; DIED: 1904) *Swiss crystallographer.*

Soret was educated at Paris and Heidelberg. He became a professor of mineralogy at the University of Geneva in 1881 from which he retired in 1900.

REFERENCES: DBA: II 1236, 203-206. • Duparc, Louis., "Charles Soret. Notice biographique," *Archives des Sciences Physiques et Naturelles (Genève)*, 18, p. 5-24, portrait. • Gramlich, V. and H. Grimmer, "The history of crystallography in Switzerland," *Chimia*, 55 (2001), 484-6. [A short review of the development of crystallography in Switzerland and of the Swiss Society for Crystallography.]. • J. K. Platten and P. Costesèque., "Charles Soret. A short biography on the occasion of the hundredth anniversary of his death," *The European Physical Journal E - Soft Matter*, 15 (2004), no. 3, p. 235-239. • Poggendorff: 3, p. 1270 & 4, 1416-7. • Sarjeant, *Geologists*, 1980: 3, p. 2147. • WBI.

**4471. — French, 1893.**

Éléments | De | Cristallographie | Physique | Par | Charles Soret | Professor A L'Université Des Genève | Avec 1 Planche Et 538 Figures Dans Le Texte | [ornate rule] | [Next lines set in two columns separated by a rule: Genève | H. Georg, Éditeur | Bale: Même Maison | [vertical rule] | Paris | Gauthier-Villars | Grands-Augustins, 55 | 1893 | Tous droits réservés.

8°: [i]-xx, [1]-653, [1] p.

CONTENTS: [i-ii], Half title page, "Éléments | De | Cristallographie Physique," verso printer's info.; [iii-iv], Title page, verso blank.; [v]-vii, "Avant-Propos."—signed Ch. Soret, 1 December 1892.; [viii], Blank.; [ix]-xx, "Table De Matières."; [1], Sectional title page.; [2], Blank.; [3]-646, Text.; [647]-653, "Index."; [1 pg], "Explication De La Planche."

VERY SCARCE. An extensive work giving the *Elements of Physical Crystallography* in a long and comprehensive treatise. The work covers symmetry, crystallographic systems, crystallographic imperfections, chemical composition, physical properties, optics, and thermal, magnetic and electrical properties.

REFERENCES: Hlawatsch, *Bibliothekskatalog*, 1911: p. 84. • NUC.

## SOWERBY

**SOULAVIE, Jean Louis Giraud.** (BORN: Argentière (Ardèche), France, 1752; DIED: Geneva, Switzerland, March 1813) *French theologian*.

Prior to the Revolution, Soulavie was an abbot in Nîmes, later pastor at Sevent and chief-vicar at Châlons. He retired to Geneva. He wrote many works on vulcanology, geology, natural history and history.

REFERENCES: DSB: 12, 549-50. • Poggendorff: 2, col. 964. • Zittel, *History of Geology*, 1901: p. 40.

### 4472. — French, 1780-4.

Histoire | Naturelle | De La France | Méridionale, | Ou Recherches sur la Minéralogie du Vivarais, du | Viennois, du Valentinois, du Forez, de l'Auvergne, | du Velay, de l'Uségeois, du Comtat Venaissin, de la | Provence, des Diocèses de Nîmes, Montpellier, Agde, | &c. | Sur la Physique de la Mer Méditerranée, sur les Météores, | les Arbres, les Animaux, l'Homme, & la Femme de | ces Contrées. Avec ainq. Planches doubles par Volume, | & une Carte Géographique des trois Régnes. | Ouvrage dédié au Roi, imprimé sous le Privilège | & l'Approbation de l'Académie Royale des Sciences. | Par M. l'Abbé Giraud-Soulavie. | Tome Premier. | [ornament] | De l'Imprimerie de Belle, à Nîmes, & se vend. | A Paris, | Hôtel de Venise, Cloître Saint-Benoît, | [next 5 lines braced on the left with "Et chez{":] J.F. Quellau, Libraire rue Christine, au | Magasin Littéraire. | Mérigot l'aîné, Quai des Augustins pres | le Four-Neus. | Belin, rue Saint-Jacques. | [ornate rule] | M.DCC.LXXX.

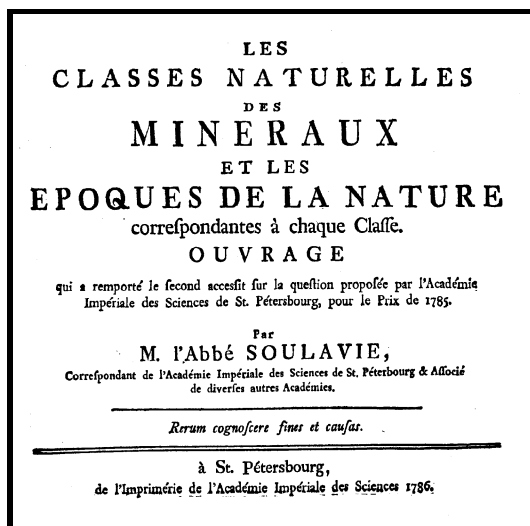
8 vols. 8°. With copper plates and a map. The fourth volume has the title: *Chronologie physique des éruptions des volcans de la France méridionale*.

RARE. As a self-taught amateur, Soulavie was widely read. He developed an interest in mineralogy and geology, and began exploring in the 1770's the volcanic regions around Vivarais and Velay. In this work, he begins by developing the commonly held idea that most sedimentary formations were deposited by a gradually shrinking ocean, he then goes on to develop the principle of superposition, first outlined in 1669 by Steno. Soulavie then attempts to correlate the individual rock strata with the fossils they contain, arguing that the oldest layers must contain the most extinct species, while newer layers should contain analogs of living creatures. He attempts to work this chronology for the area around Vivarais. These observations are then expressed in geological maps of his own design.

REFERENCES: BL: [955.h.7-14. & 235.h.18-21.]. • DSB: 12, 549. • LKG: XIV 370. • Ward & Carozzi, *Geology Emerging*, 1984: no. 2087.

### 4473. — French, 1786.

Les | Classes Naturelles | Des | Minéraux | Et Les | Epoque De La Nature | correspondantes à chaque Classe. | Ouvrage | qui a remporté le second accessit sur la question proposée par l'Académie



LES CLASSES NATURELLES DES MINÉRAUX, 1786

| Impériale des Sciences de St. Pétersbourg, pour le Prix de 1785. | Par | M. l'Abbé Soulavie, | Correspondant de l'Académie Impériale des Sciences de St. Pétersbourg & Associé | de diverses autres Académies. | [rule] | Rerum cognoscere fines et causas. | [double rule] | à St. Pétersbourg, | de l'Imprimerie de l'Académie Impériale des Sciences 1786.

4°: A-V<sup>4</sup> X<sup>1</sup>; 81l.; [1]-161, [1] p., one folding plate (maps and cross-sections), one folding table (p. 49, general classes of minerals). PAGE SIZE: 252 x 194 mm.

CONTENTS: [1-2], Title page, verso blank.; [3]-96, "Introduction | Et | Observations Générales | et Préliminaires."; [97], Sectional title page, "Seconde Partie. | [double rule] | Les Ages | de la nature correspondans aux classes de minéraux | exposées ci-dessus, | avec | les époques & révolutions particulières à chaque âge & relatives | aux ordres, espèces & variétés, qui composent les classes. | [rule] | ou | Rapports naturels entre les époques de la nature & les | variétés de minéraux. | [rule]."; [98], Blank.; [99]-161, Text.; [1 pg], Blank.; [At end], Folding plate.

RARE. Also published with De Launay's *Essai sur l'Histoire Naturelle des Roches* (St. Petersburg, 1786) in *Mémoires présentés à l'Académie Impériale des Sciences* (St. Petersburg, 1786) [which see entry under *Mémoires*].

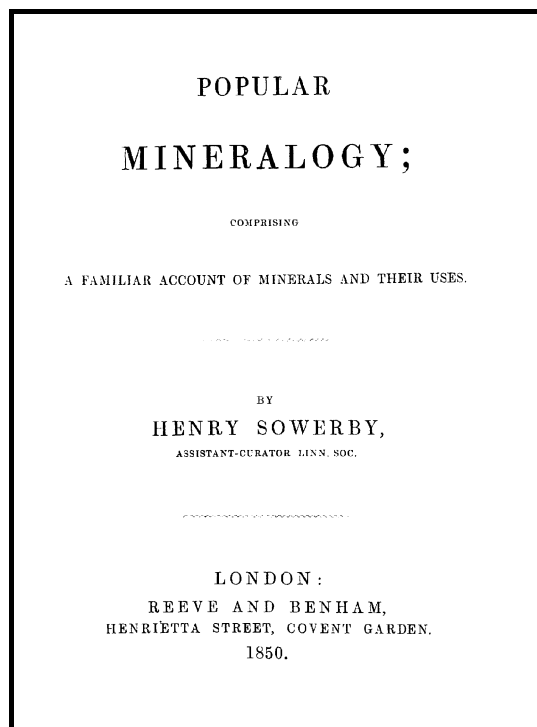
REFERENCES: LKG: XII 111. • Ward & Carozzi, *Geology Emerging*, 1984: no. 2089 [wrong pagination].

**SOWERBY, Henry.** (BORN: Kensington, London, Englan, 29 March 1825; DIED: Near Melbourne, Australia, 15 September 1891) *English mining expert & draughtsman*.

Member of the famous family of illustrators, Henry was the younger son of the first George Brettingham Sowerby [1788-1854] and brother to George Brettingham II [1812-1884]. Henry was an assistant librarian to the Linnean Society of London from 1843 to 1852. Believing his prospects would improve, he immigrated to Australia

in 1854. There he became a draughtsman at Melbourne University and subsequently instructor of drawing in the Australian state schools. Henry devoted himself to gold mining the last twenty years of his life.

REFERENCES: BBA: I 1024, 221-222. • Cleavelly, *Bibliography of the Sowerby Family*, 1974. • DNB: 18, 713 [by B.B. Woodward]. • *Gentleman's Magazine*: 2 (1854), 406. • Sarjeant, *Geologists*, 1980: 3, 2151. • WBI.



POPULAR MINERALOGY, 1850

#### 4474. — English, 1850.

Popular | Mineralogy; | Comprising | A Familiar Account Of Minerals And Their Uses. | [wavy rule] | By | Henry Sowerby, | Assistant-Curator Linn. Soc. | [wavy rule] | London: | Reeve And Benham, | Henrietta Street, Covent Garden. | 1850.

8°:  $\pi^4$  B-Z<sup>8</sup>; 180*l*.; [i]-viii, [1]-344, [1]-8 p., 20 chromo-lithographic plates showing 80 depictions of various mineral specimens. PAGE SIZE: 154 x 120 mm.

CONTENTS: [i-ii], Title page, verso "[ornament]" | Printed By Reeve And Nichols, | "..."; [iii], Dedication to Alexander Crichton.; [iv], Blank.; [v]-viii, "Preface."—dated 5 October 1850.; [1]-328, Text.; [329]-338, "Index.;" [339]-340, "List Of Plates.;" [341]-344, "Glossary.;" [1]-8, "List of Works | ... | Published By | Reeve And Benham."

VERY SCARCE. Published as volume 12 of Reeve's *Popular Natural History Manuals* series. This is the first work to use chromo-lithography to illustrate mineral specimens. In the preliminaries, Sowerby describes the distribution of minerals, a mineral collecting trip to Cumberland, the forming of collections, and the character of minerals. This is

followed by the largest section of the text that describes the minerals pictured on the plates. Finally, an index, a list of plates and a glossary of terms conclude the work. Although rather crude in execution, the renderings of the species on the plates are for the most part recognizable.

REFERENCES: BMC: 5, 1981. • Dana's 7th (Bibliography): 81. • NUC: 559, 88 [NS 0771492].

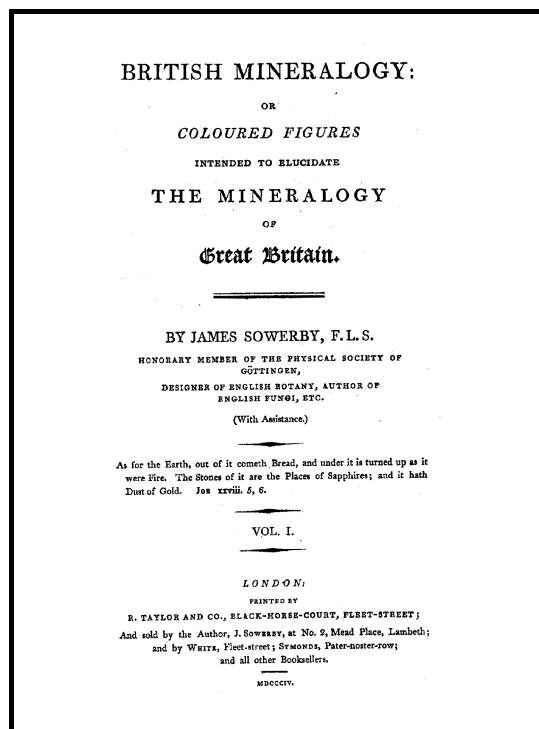
**SOWERBY, James.** (BORN: London, England, 21 March 1757; DIED: Lambeth, England, 25 October 1822) *English artist & naturalist.*

Born the son of a lapidary who worked and lived in Fleet-street, Sowerby showed an artistic ability in his childhood. He became a student at the Royal Academy where he studied under the seascape artist Richard Wright [1735-1775]. He painted miniatures and portraits during his early career, and from a desire to make his backgrounds more realistic, Sowerby began a study of botany. Soon he became associated with the botanist William Curtis [1746-1779], who helped Sowerby become an expert illustrator of plants. From this relationship, Sowerby developed his principle publication, *English Botany* (36 vols., London, 1790-1813). Sowerby's memberships include the Geological Society, Royal Society and the Linnean Society all of London.

REFERENCES: BBA: I 1024, 223-234. • *Bryan's Dictionary of Painters*, 1903-4: 5, 105. • *Catalogue of Engraved British Portraits*: 6, 551. • Cleavelly, *World Palæontological Collections*, 1983: 272. • Cleavelly, *Bibliography of the Sowerby Family*, 1974. • Cleavelly, R.J., "The Sowerbys, the Mineral Conchology, and their fossil collection," *Journal for the Society of the Bibliography of Natural History*, 6 (1974), no. 6, 418-81. • Collins, J., *A note on the history of the Sowerby family archive. Together with a short title catalogue of natural history works written or illustrated by members of the family.* London, Seaton, 1973. 22 p., genealogical chart on rear endpaper. • Conklin, *James Sowerby, his Publications*, 1995. • DNB: 18, 713-5. • DSB: 12, 552-3 [by J.M. Eyles]. • *Encyclopaedia Britannica*, 11th edition. • *Gentleman's Magazine*: 92, pt. 2 (Dec. 1822), 562. • Lambrecht & Quenstedt, *Catalogus*, 1938: 406. • Poggendorf: 2, col. 965-6. • Sarjeant, *Geologists*, 1980: 3, 2151-2 & Suppl. 2 (1995), 2, 1095. • Simpkins, D.M., "Childhood reminiscences of James Sowerby," *Journal for the Society of the Bibliography of Natural History*, 6 (1974), no. 6, 416-7. • Sowerby, A.D.C., *Sowerby saga: being a brief account of the origin and genealogy fo the Sowerby family and its history from the earliest times down to the present based upon research into available extant literature*, by Arthur de Carle Sowerby, in collaboration with Alice Muriel Sowerby and Joan Evelyn Stone. Washington, D.C., Privately published, 1952. 3 vols. in 2 parts, v, 180 p. [Mimeographed production.]. • Stafleu & Cowan, *Taxonomic Literature*, 1976-88: 5, 759-62. • Thieme & Becker, *Allgemeines Lexikon*, 1907-50: 31, 314. • WBI. • *World Who's Who in Science*: 1582.

#### 4475. — English, 1804-17.

British Mineralogy: | or | Coloured Figures | Intended To Elucidate | The Mineralogy | of | Great Britain. | [double rule] | By James Sowerby, F.L.S. | [... 4 lines of titles and memberships ...] | (With Assistance.) | [tapered rule] | As for the Earth, out of it cometh Bread, and under it is turned up as it | were Fire. The Stones of it are the Places of Sapphires; and it hath | Dust of Gold. Job xxviii. 5, 6. | [tapered rule] | Vol. I. | [tapered rule] | London: | Printed by | R. Taylor and



BRITISH MINERALOGY, 1804

Co., Black-Horse-Court, Fleet-Street; | And sold by the Author, J. Sowerby, at No. 2, Mead Place, Lambeth; | and by White, Fleet-Street; Symonds, Pater-noster-row; | and all other Booksellers. | [rule] MDCCCIV [-MDCCCXVII].

5 vols. [VOL 1: 1804] 8°: [i]-xii, [1]-223, [1] errata p., plates 1-100; [VOL 2: 1806] 8°: [2], 1\*-19\*, [1] blank, [1]-199, [1] errata p., plates 101-200; [VOL 3: 1809] 8°: [2], [1]-209, [1] errata p., plates 201-300; [VOL 4: 1811] 8°: [2], [1]-184 p., plates 301-400; [VOL 5: 1817] 8°: [i]-vi, 1-281, [24] p., plates 401-550. In some copies plate 421 is misnumbered 221. PAGE SIZE: 236 x 136 mm.

CONTENTS: [Vol 1] [i-ii], Title page, verso blank.; [iii], Dedication to Sir Joseph Banks signed James Sowerby December 1, 1804.; [iv], Blank.; [v]-vii, "Preface."; [viii], Blank.; ix-x, "Sketch of a System | for | British Mineralogy."; xi-xii, "Observations on the System."; [1]-208, Text.; [209]-210, "Systematical Index | to | Vol. I."; [211]-223, "Alphabetical Index | of | Plates, & c. | to | Vol. I."; [1 pg], "Corrigenda.";

[Vol 2] [2 pgs], Title page, verso blank.; 1\*-19\*, Text.; [1 pg], Blank.; 1-190, Text.; [191]-192, "Systematical Index | to | Vol. II.; [193]-199, "Alphabetical Index | to | Vol. II."; [1 pg], "Corrigenda.";

[Vol 3] [2 pgs], Title page, verso blank.; 1-200, Text.; [201]-202, "Systematical Index | to | Vol. III."; [203]-209, "Alphabetical Index | to Vol. III."; [1 pg], "Addenda et Corrigenda.";

[Vol 4] [2 pgs], Title page, verso blank.; 1-176, Text.; [177]-184, "Alphabetical Index | to | Vol. IV.";

[Vol 5] [i-ii], Title page, verso blank.; [iii]-vi, "Preface."—signed James Sowerby Feb. 1 1817.; 1-281,

Text.; [1 pg], Blank.; [8 pgs], "Systematical Index | to | British Mineralogy."; [15 pgs], "Index | to | British Mineralogy."; [1 pg], "Notes and Corrections."

VERY SCARCE. *British Mineralogy* is most noted for its 550 engraved, hand-colored plates that depict the mineral wealth of Great Britain. Each plate is accompanied by descriptive letterpress that explains the pictured minerals in a casual style of someone who knew and appreciated minerals.

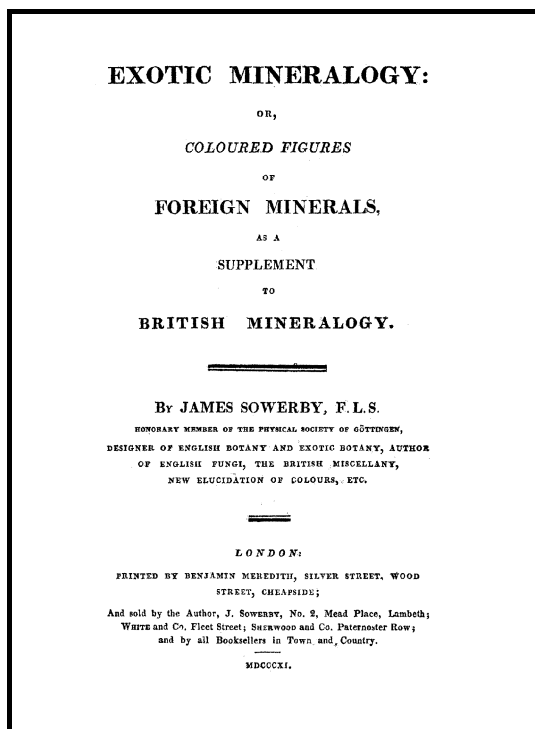
Due to an earlier success with his *English Botany* (36 vols., London, 1790-1813; 2,592 hand colored plates), Sowerby was undoubtedly trying to continue his prosperity by issuing other illustrated works in the natural sciences. It was only proper that he should venture into mineralogy which had become a very popular pastime among the wealthier classes, and around 1791 most notably with Sowerby himself. So in 1802 Sowerby began to publish by subscription an illustrated topographical mineralogy of Great Britain. The product of this venture is *British Mineralogy*, which contains the largest number of plates and some of the finest examples of hand-colored mineral illustration ever produced. During the years of its publication the mines of England were producing ores from some of the most richly mineralized deposits yet discovered; subsequently, many notable mineral specimens, including several unsurpassed examples of some species, were discovered and preserved. Sowerby sought out these unusually fine specimens and together with more typical examples, described and illustrated them in *British Mineralogy*, thereby creating an illustrated collector's compendium of the minerals of Great Britain that has never been superceded.

*British Mineralogy* was originally issued in 78 parts, called numbers, between 1802 and 1817. Conklin (1995) reproduces the sequence that these parts appeared. Periodically, after a sufficient number of plates had been produced (usually 100), the individual subscribers would have the volumes bound up to suit their tastes. As a result, this work, though most commonly found in five volumes, is also known in four and six volume sets, and in one copy, ten volumes, which split the text and plates into separate books.

REFERENCES: BL. • BMC: 4, 1982. • Conklin, *James Sowerby, his Publications*, 1995: 26 (1995), no. 4, 85-105. • Dana's 7th (Bibliography): 81. • *Freilich Sale Catalog*: nos. 496-8. • Knight, *Natural Science Books in English*, 1972: p. 93. • LKG: XIV 451. • NUC: 559, 88-91 [NS 0771496]. • Ward & Carozzi, *Geology Emerging*, 1984: no. 2090.

#### 4476. — English, 1811-7.

Exotic Mineralogy: | or, | Coloured Figures | of | Foreign Minerals, | as a | Supplement | to | British Mineralogy. | [double rule] | By James Sowerby, F.L.S. | [...4 lines of titles and memberships...] | [double rule] | London: | Printed by Benjamin Meredith, Silver Street, Wood | Street, Cheapside; | And sold by the Author, J. Sowerby, No. 2, Mead Place, Lambeth; White and Co. Fleet Street; Sherwood and Co. Paternoster Row; | and



EXOTIC MINERALOGY, 1811

by all Booksellers in Town and Country. | [rule] | MDCCCXI [-MDCCCXVII].

2 vols. [VOL 1: 1811] 8°: [2], [i]-iv, 1-195 p., plates 1-72, 74-100; [VOL 2: 1817] 8°: [1]-159 p., plates 101-169. PAGE SIZE: 235 x 142 mm.

CONTENTS: [Vol 1] [2 pgs], Title page, verso blank; [i], Dedication to Robert Ferguson, signed James Sowerby, March 1, 1811.; [ii], Blank.; [iii]-iv, "Preface."; 1-195, Text.

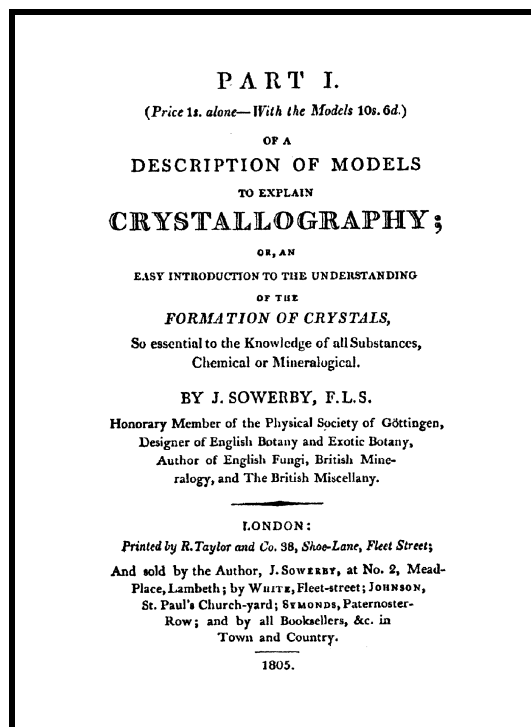
[Vol 2] [1-2], Title page, verso "Errata. | Preface to Vol. I, p. 1, line 4 from the bottom, for 'supersede' read 'supersedes.' "; [3], "Preface."— signed James Sowerby, 1817.; [4], Blank.; 5-151, Text.; [152], Blank.; [153]-160, "Index to Exotic Mineralogy, | Vols. I and II."

VERY SCARCE. As the title states, *Exotic Mineralogy* was intended to supplement Sowerby's other great mineralogical work, *British Mineralogy*; however, perhaps due to a lack of interest in the mineralogy of localities outside Great Britain, there appear to have been far fewer subscribers to *Exotic Mineralogy*. The result is these two volumes are exceptionally rare.

*Exotic Mineralogy* is chiefly noted for its engraved, hand-colored plates, which are among the most realistic mineral depictions ever produced by Sowerby. In preparing the illustrations for this work, Sowerby sought out the best examples of minerals not then known in Great Britain. Weighted by a high quality in the models, the plates in *Exotic Mineralogy* are overall more appealing than those of *British Mineralogy*, whose purpose was to depict examples of every known type of mineral found in Great Britain — not simply prime examples.

Even though the plates of *Exotic Mineralogy* are numbered through 169, plate 73 was not always issued in section; therefore, a complete copy of the work contains only 168 plates. A note on the wrapper to the 13th section, which was to have contained the missing plate states, "It was intended to have published the Turquoise in Tab. 73, but it has been found necessary to postpone that plate." In fact, plate 93 figuring turquoise is the postponed plate with the seven clearly over-engraved into a nine in some printings.

REFERENCES: BL. • BMC: 4, 1982. • Conklin, *James Sowerby, his Publications*, 1995: 26 (1995), no. 4, 85-105. • *Freilich Sale Catalog*: no. 499-500. • NUC: 559, 88-91 [NS 0771524]. • Ward & Carozzi, *Geology Emerging*, 1984: no. 2092.



DESCRIPTION OF MODELS, 1805

4477. — English, 1805 [Part I].

Part I. | (Price 1s. alone—With the Models 10s. 6d.) | Of A | Description Of Models | To Explain | Crystallography; | Or, An | Easy Introduction To The Understanding | Of The | Formation Of Crystals, | So essential to the Knowledge of all Substances, | Chemical or Mineralogical. | By James Sowerby, F.L.S. | [...4 lines of titles and memberships...] | [tapered rule] | London: | Printed by R. Taylor and Co. 38, Shoe-Lane, Fleet Street; | And sold by the Author, J. Sowerby, at No. 2 Mead-Place, Lambeth; by White, Fleet-street; Johnson, | St. Paul's Church-yard; Symonds,

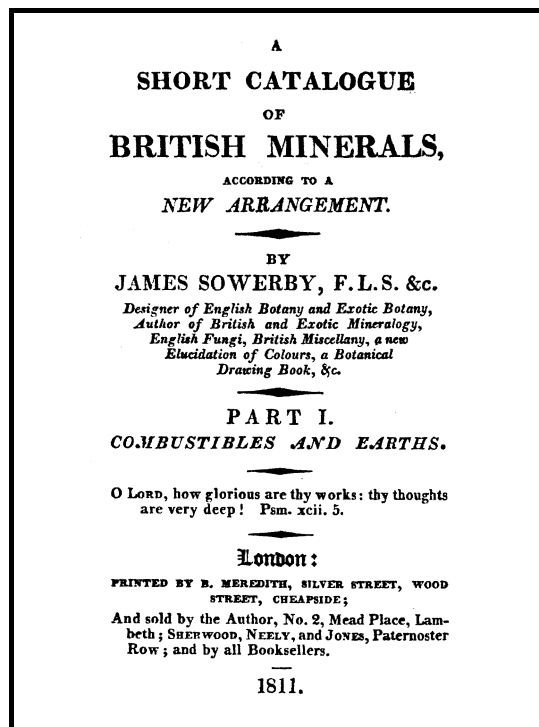
Paternoster—Row; and by all Booksellers, &c. in Town and Country. [short rule] 1805.

8°: [1]-16 p., one plate. Issued in a blue-grey wrapper with the following text on the cover: "Part 1 of Crystallography By Jas. Sowerby FLS. &c. 1805 2. Mead Place Lambeth."

CONTENTS: [1-2], Title page, verso blank; [3]-7, "A Description of Models to Explain Crystallography."; [8], Blank; [9], "Part I. Newcastle Coal."; 10-16, "Description of the Models, &c."; [At end], One plate—dated May 24, 1805.

VERY SCARCE. No more published. This pamphlet and the ebony crystal models to which it refers, were intended to supplement *British Mineralogy* (5 vols., London, 1804-17), to help those subscribers to better comprehend the science of crystallography. However, only the first part of the publication appeared, owing to insufficient interest. Worth noting is the odd subject choice for the first installment of "Newcastle Coal," a substance that does not crystallize.

REFERENCES: BL.



SHORT CATALOGUE, 1811

#### 4478. — English, 1811.

A | Short Catalogue | Of | British Minerals, | According To A | New Arrangement. | [tapered rule] | By | James Sowerby, F.L.S. &c. | [...5 lines of titles and memberships...] | [tapered rule] | Part I. | Combustibles And Earths. | [tapered rule] | [...2 lines of quotation...] | [tapered rule] | London:

| Printed By B. Meredith, Silver Street, Wood | Street Cheapside; | And sold by the Author, No. 2, Mead Place, Lam- | beth; Sherwood, Neely, and Jones, Paternoster | Row; and by all Booksellers. | [rule] | 1811.

12°: xvi, 72, [ii] p.

VERY RARE. No more published. The front wrapper reads: "Catalogue of British minerals, chiefly in the Collection of James Sowerby." Whereas the illustrated *British Mineralogy* (London, 1804-17) had no systematic arrangement, this apparently was Sowerby's attempt to apply a classification system to British minerals. However, there apparently was little interest in the work, and the author produced no more parts.

REFERENCES: BL. • Ward & Carozzi, *Geology Emerging*, 1984: no. 2091.

#### 4479. — English, 1819.

A | List | of | Minerals, | with | Latin and English Names, | and | Numerous Synonyms; | Arranged According To | A System | Founded Upon The | Specific Gravities of their Component Parts; | with | Reference | to | British and Exotic Mineralogy. | [double rule] | Printed In A Form Fitted For Labels As Used In | Mr. Sowerby's Museum. | [double rule] | London: | Printed by W. Arding, 21, Old Beswell Court, Carey Street; | And sold by the Author, J. Sowerby, No. 2, Mead Place, Lambeth; | Longman and Co. and Sherwood and Co. Paternoster Row; | and by all Booksellers in Town and Country. | [wavy rule] | 1819.

8°: [i]-iv, [1]-22 p. PAGE SIZE: 235 x 142 mm.

CONTENTS: [i-ii], Title page, verso blank.; [iii]-iv, "Preface."—signed James Sowerby, July 1819.; [1]-22, "A Catalogue Of Minerals."

EXTREMELY RARE. The plates in both the *British and Exotic Mineralogies* were not issued in any systematic order. As a remedy, *A Catalogue of British Minerals* was published in 1819 as a kind of appendix, to be used in making out labels for specimens in mineral collections. For each species listed, a reference is given to its plate in either the *British* or *Exotic Mineralogies*.

REFERENCES: BL: [728.e.21.]. • Smith, *Early Mineralogy in Great Britain*, 1978: 60.

#### SPADA, Giovanni Giacomo. (BORN: Verona, Italy, 1680; DIED: 1774) *Italian naturalist & geologist*.

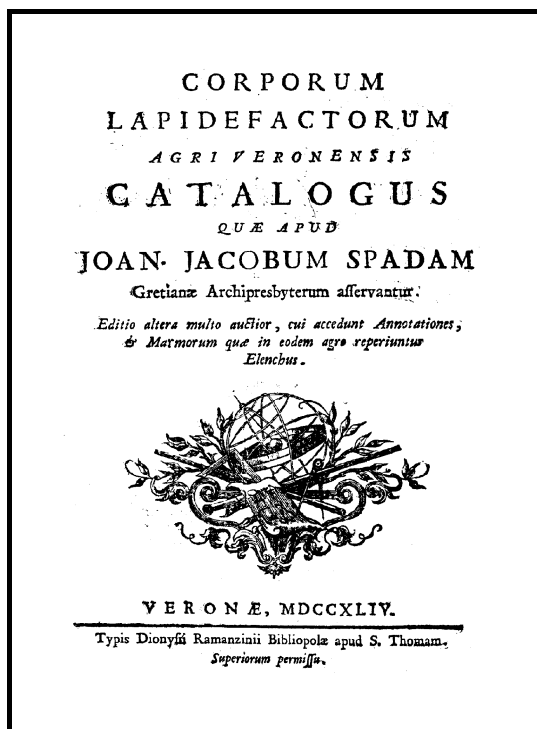
Spada was archipresbyter at Graz, Italy.

REFERENCES: Antonio, N., *Biblioteca Hispana Antigua o de los escritores espanoles que brillaron desde Augusto hasta el ano de Cristo de MD. Matriti*, Apud viduam et heredes D. Ioachimi Ibarrae, 1788. 2 vols. [Reprinted: Madrid, Fundacion Universitaria Espanola, 1998; ISBN: 8473923960.]. • LKG: p. 304. • Phillips, *Dictionary of Biographical Reference*, 1889: p. 871.

4480. *Dissertation, 1737*: Dissertazione ove si Prova, che li Petrificati Corpi Marini, che nei Monti Adiacenti a Verona si Trovano, non sono Scherzi di Natura, nè Diluviani, ma Antediluviani. (Giunta.) Verona, 1737.

2 parts.





CORPORUM LAPIDEFACTORUM, 1744

RARE. Dissertation describing the petrified marine bodies found in the mountains adjacent to Verona. Included are descriptions of their nature, and various theories as to their formation in the context of the Deluge.

REFERENCES: BL: [B.358.(1,2.)]. • LKG: XIV 631 & 632a.

**4481. — Latin, 1739** [First edition].

Catalogus | Lapidum Veronensium | [Greek Text] | Idest propria forma præditorum, Qui Apud | Joannem Jacobum Spadam | Gretianæ Archipresbyterum | Asservantur. | [ornament] | Veronæ, MDCCXXXIX. | [rule] | Typis Dionysii Ramanzini Bibliopolæ apud S. Thomam. | Superiorum Permissu.

8°: [1]-31, [1] p. VERY RARE.

REFERENCES: BL: [B.356.(6.)]. • LKG: XIV 633b.

**4482. 2nd edition, 1744:** Corporum | Lapidefactorum | Agri Veronensis | Catalogus | Quæ Apud | Joan. Jacobum Spadam | Gretianæ Archipresbyterum asservantur. | Editio altera multo auctior, cui accedunt Annotationes, & Marmorum quæ in eodem agro reperiuntur | Elenchus. | [ornament] | Veronæ, MDCCXLIV. | [rule] | Typis Dionysii Ramanzinii Bibliopolæ apud S. Thomam. | Superiorum permissu.

4°: A-K<sup>4</sup>  $\chi^1$  (\$2 signed); 41 $\ell$ .; [1]-80, [2] p., 10 leaves of plates (including map). PAGE SIZE: 252 x 184 mm.

CONTENTS: [1]-2], Title page, verso blank.; [3]-[6], "Nobilissimis Viris | Hieronymo Et Carolo | De Allegris | Comitibus."; 7-12, "Præfatio."; [13]-80, Text.; [2] pgs], Publisher's list.

RARE. Apparently an expansion of the previous *Catalogus Lapidum Veronensium* (1739), this is a descriptive catalog of the mineralogical and paleontological specimens

in Spada's collection that were found in the vicinity of his native Verona. In this edition, the text has been increased through the inclusion in the descriptions of copious annotations about the specimens.

REFERENCES: BL: [B.358.(3.)]. • Hoover Collection: no. 755. • LKG: XIV 634c. • Ward & Carozzi, *Geology Emerging*, 1984: no. 2094.

**SPALLANZANI, Lazzaro.** (BORN: Scandiano (Reggio Emilia), Italy, 1729; DIED: Pavia, Italy, 1799) *Italian naturalist.*

Started from the father on the studies lawyers, it attended the University of Bologna, showing however greater propensione for the naturalistic studies. Here it had between Low its teaching Laura. Clergyman, after to have taught to Reggio Emilia and to Modena, obtained in the 1769 Natural History chair to the University of Pavia, instruction that maintained until death. Its work remains tied to experiences and discoveries of exceptional importance, that they carried in the first place to deny the spontaneous generation in the infusorial ones. It discovered moreover the gastric juice, compi remarkable studies on the fecondazione and admitted for via experiences them the existence of the respiratory gaseous exchanges in the blood. It carried out numerous travels, between those celebrates to Costantinopoli (1785-86) and in Two Sicilie (1788), during which it realized also important observations in geologic within. Much remarkable also its studies on the respiration.

REFERENCES: ABI: II 590, 30-33; II S 78, 346-363. • Altieri Biagi & Basile, *Scienziati del Settecento*, 1983. • Capparoni, *Profili Bio-Bibliografici*, 1928-32: 1, 113-6, portrait. • Imperatori, *Dizionario di Italiani all'Estero*, 1956. • Poggendorff: 2, col. 968. • Principe, *Volcanology in the 18th Century*, 2000. • WBI.

**4483. — Italian, 1785** [Dissertations].

Dissertazioni due... [Saggio di osservazioni microscopiche concernenti il sistema della generazione; De lapidus ab aqua resilientibus]. Modena, Eredi di Bartolomeo Soliani Stamp. Ducali, 1765.

4°: [2] 87 [1], [4] 44 p., 2 folding engraved plates.

PAGE SIZE: 219 x 174 mm.

VERY SCARCE. First Edition of Spallanzani's first important scientific work, a landmark in the history of biology. G-M 100 (first dissertation). In the first dissertation, entitled Saggio di osservazioni microscopiche concernenti il sistema della generazione de' Signori di Needham e Buffon, Spallanzani disproved Buffon and Needham's claim that the microorganisms found in various plant and animal infusions were spontaneously generated from decomposed organic matter. Spallanzani brilliantly employed the same experimental method that Pasteur would use a century later: "In hundreds of experiments he tested various rituals for rendering infusions permanently barren and finally found that they remained free of microorganisms when put into flasks that were hermetically sealed and the contents boiled for one hour. The entrance of air into the flask through a slight crack in its neck was followed by proliferating infusoria. His masterful essay, dedicated to the Bologna Academy of Sciences . . . reported no spontaneous generation in strongly heated infusions protected from aerial contamination" (DSB). Spallanzani was one of the first to dispute the spontaneous generation of microorganisms, but it took another hundred years-and the repetition of his



experiments by Pasteur-before his conclusions were finally accepted. Spallanzani's second dissertation, entitled *De lapidibus ab aqua resilientibus*, gives a physico-mathematical explanation of the mechanism of stone-skipping on water. It is dedicated to his cousin Laura Bassi, professor of physics and mathematics at the University of Bologna, who had been Spallanzani's teacher.

REFERENCES: Garrison & Morton: no. 100 [first dissertation].

**4484. — French, 1769** [French transl.].

Nouvelles recherches sur les découvertes microscopiques, et la génération des corps organisés. Ouvrage traduit de l'Italien de M. l'Abbé Spallanzani ... par M. l'Abbé Regley ...; avec des notes, des recherches physiques & métaphysiques sur la nature & la religion, & une nouvelle théorie de la terre, par M. de Needham. London & Paris: Lacombe, 1769.

2 vols. [VOL 1] 8°: [2], ii, liv, [2], 298 p. [VOL 2] 8°: [4], xvi, 293 p., 9 plates.

VERY SCARCE. First edition in French of Spallanzani's *Saggio di osservazioni microscopiche*. The second part, by Needham, has its own title page: *Nouvelles recherches physiques et métaphysiques sur la nature et la religion, avec une nouvelle théorie de la terre, et une mesure de la hauteur des Alpes*, par M. de Needham. "His masterful essay .. *Saggio di osservazioni microscopiche* [concernenti il sistema della generazione dei Signori di Needham e Buffon] (1765) reported no spontaneous generation in strongly heated infusions protected from aerial contamination. Further, the causes of Needham's misinterpretations were analyzed and Buffon's assertions about organic molecules refuted. The work first appeared jointly, under the title *Dissertazioni due..*" (D.S.B. 12: 555).

REFERENCES: LKG: XIII 117\*.

**Viaggi Alle Due Sicilie**

**4485. — Italian, 1792-3** [First edition].

Viaggi | Alle Due Sicilie | E In Alcune Parti | Dell'Appennino | Dell' Abate | L. Spallanzani | [...10 lines of titles and memberships...] | [ornate rule] | Tomo Primo. | [ornate rule] | In Pavia MDCCXCII. | [double rule] | Nella Stamperia De Baldassare Comini | Con approvazione.

6 vols. [VOL 1] 8°: lv, 292 p., 2 plates (numbered 1-2 showing Etna). [VOL 2] 8°: 351 p., 7 plates (numbered 3-9). [VOL 3] 8°: 364 p. [VOL 4] 8°: 256 (i.e., 356), 2 plates (numbered 10-11). [VOL 5] 8°: 371 p. [VOL 6] 8°: [4], 288 p.

VERY SCARCE. Of considerable rarity this fascinating account of Spallanzani's journeys to southern Italy to investigate the recent intense volcanic and seismic activities. Spallanzani (1729-99), "was the first who applied experimental methods to the elucidation of volcanic rock-structure...His descriptions

and observations of volcanic regions surpass in scientific accuracy and completeness all previous contributions of the kind, and have secured a permanent place in the literature of scientific travel." (Zittel)

In the six volumes of the *Travels to the Two Sicilies* and in some you leave of the Appennino, Lazzaro Spallanzani offers a contribution of great relief to the development of the volcanology. To surveyings carried out directly on active volcanos of southern Italy (in particular in the Aeolian Islands and on the Etna) it places side by side to the analyses chemistries in laboratory and the tests of fusion on the collected champions. This will allow it, between the other, to interpret with exactitude the process of formation of the pomici.

Edition originates them, dedicated to the conte of Wilzeck of this most important relation of the last great travels completed from the Spallanzani. In it the observations that it collected in its travels to the Vesuvio, to the Etna, the Lipari islands, to Stromboli and Messina, let alone to the Euganei Necks and on the modenese and reggiano Appennino are re-united all. The author demonstrates also to a being worth geologist and vulcanologo here. The sixth volume, printed in 1797 like appendix, s' intitolo it Pamphlets over various animals and contains eight monographs over species of rondini, the nocturnal bird called Strix Scops and over the eels of Comacchio. To notice beautiful and interesting the 11 tables outside text recorded in branch.

REFERENCES: LKG: XIV 565. • Prandi, D., *Bibliografia delle Opere di Lazzaro Spallanzani delle Traduzione e degli Scritti su di Lui*. Firenze, Sansoni Antiquariato, 1951. 172 p., frontispiece. illus: pp. 52-3. • Zittel, *History of Geology*, 1901: pp. 98-99.

**4486. 1825: Viaggi alle Due Sicilie e in alcune parti dell' Appennino ...** Milano, Tip. Classici Italiani, 1825-26.

5 vols. [VOL 1] 8°: XXXI, 387, (2) p. [VOL 2] 8°: 464; 566, (3) p. [VOL 3] 8°: 446, (2) p. [VOL 4] 8°: 360, (2) p. [VOL 5] 8°: 590, (3) p., e complessive 15 belle tavole incise su rame. I volumi 5 e 6 riguardano "Memorie sulla respirazione" e "Opuscoli di fisica animale e vegetabile". VERY SCARCE.

**4487. German transl., 1794-8:** Des Abtes Lazzaro Spallanzani Königl. Professors der Naturgeschichte auf der Universität Pavia und Oberaufsehers des dasigen öffentl. Kaiserl. Naturalienkabinetts ... Reisen in beyde Sicilien und in einige Gegenden der Appenninen. Aus dem Italienischen mit Anmerkungen. Leipzig, im Verlage der Dyckschen Buchhandlung, 1794-8.

5 vols. [VOL 1: 1795] 8°: XX S., [1] Bl., 320 S., 2 gef. Bl. : 2 Ill. (Kupferst.). [VOL 2: 1795] 8°: [2] Bl., 329, [1] S. [1] Bl., [7] gef. Bl. : 7 Ill. (Kupferst.). [VOL 3: 1795] 8°: [2] Bl., 338 S., [1] Bl. [VOL 4: 1796] 8°: 415 S., [1] S., [2] gef. Bl. : 2 Faltt. (Kupferst.). [VOL 5: 1797] 8°: X, 340 p.

VERY SCARCE. Translation by J.L. Kreysig of *Viaggi alle due Sicilie e in alcune parti dell'Appennino* (??, ??).

REFERENCES: LKG: XIV 566a.

**4488. — French, 1795-7.**

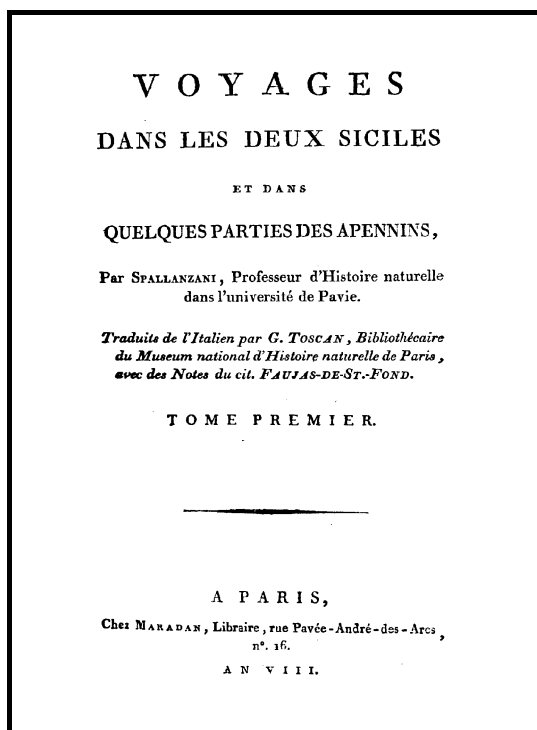
Voyages dans les Deux Siciles et dans quelques parties des Appennins, par l'abbé Lazare Spallanzani,... traduits de l'italien par J. Senebier avec des considérations générales sur les volcans, par le traducteur ... Berne, Chez Emanuel Haller, Libr.,

1795-1797.

5 vols. [VOL 1: 1795] 8°: XLIV, 299, [4] p. [VOL 2: 1795] 8°: 273 p. [VOL 3: 1795] 8°: 281 p. [VOL 4: 1796] 8°: 124 p. [VOL 5: 1797] 8°:

VERY SCARCE. First published with title: *Viaggi alle due Sicile*, it was translated by Jean Senebier [1742-1809].

REFERENCES: LKG: XVI 567b.



VOYAGES DANS LES DEUX SICILES, 1796

**4489. French transl., 1799:** Voyages | Dans Les Deux Siciles | Et Dans | Quelques Parties Des Apennins, | Par Spallanzani, Professeur d'Histoire naturelle | dans l'université de Pavie. | Traduits e l'Italien par G. Toscan, Bibliothécaire | du Muséum national d'Histoire naturelle de Paris, | avec des Notes du cit. Faujas-de-St.-Fond. | Tome Premier. [-Tome Sixième.] | [tapered rule] | A Paris, | Chez Maradan, Libraire, rue Pavée-André-des-Arcs, | n°. 16. | An VIII.

6 vols. [VOL 1] 8°: [i]-vii, [1]-311, [1] p., 2 folding plates (Mt. Aetna). [VOL 2] 8°: [4], [1]-280 p., plates 2-5 (folding; Mt. Aetna). [VOL 3] 8°: [4], [1]-291, [1] p. [VOL 4] 8°: [4], [1]-272 p., plates 6-7. [VOL 5] 8°: [4], [1]-309, [1] p. [VOL 6] 8°: [4], [1]-215, [1] p. PAGE SIZE: 190 x 118 mm.

CONTENTS: [Vol 1] [i-ii], Half title page, verso blank.; [iii-iv], Title page, verso blank.; [v]-vii, "Avertissement | Du Traducteur."; [1]-301, Text.; [302], "Errata."; [303]-311, "Table."; [1 pg], Blank.; [At end], 2 plates.

[Vol 2] [2 pgs], Half title page, verso blank.; [2 pgs], Title page, verso blank.; [1]-272, Text.; [273]-280, "Table Et Sommaires."; [At end], 3 plates.

[Vol 3] [2 pgs], Half title page, verso blank.; [2 pgs], Title page, verso blank.; [1]-276, Text.; [277]-291, "Table Et Sommaires."; [1 pg], Blank.

[Vol 4] [2 pgs], Half title page, verso "Errata pour le Tome IV."; [2 pgs], Title page, verso blank.; [1]-256, Text.;

[257]-272, "Table Et Sommaires."; [At end], 2 plates.

[Vol 5] [2 pgs], Half title page, verso blank.; [2 pgs], Title page, verso blank.; [1]-294, Text.; [295]-309, "Table Et Sommaires."; [1 pg], Blank.

[Vol 6] [2 pgs], Half title page, verso blank.; [2 pgs], Title page, verso blank.; [1]-2, "Avis De L'Auteur."; [3]-206, Text.; [207]-215, "Table Et Sommaires."; [1 pg], Blank.

VERY SCARCE. avec des reflexions generales sur les Volcans par J. Senabier French translation by G.Toscan and A. Duval, with additions by Faujas St. Fond. Paris: 1796.

**4490. English transl., 1798:** Travels in the Two Sicilies, and some parts of the Apennines translated from the original Italian of abbe Lazzaro Spallanzani .... London : G.G. and J. Robinson ..., 1798.

4 vols. 8°: [2, errata], 315, [1]; 389, [1]; 402; 394 p., 11 engraved folding plates. Includes bibliographical references.

VERY SCARCE. This book is of particular interest in the field of vulcanology as it is primarily concerned with the volcanoes of Sicily. "Lazzaro Spallanzani, distinguished eighteenth-century scientist, b. at Scadiano in Modena, Italy, 10 January, 1729; d. at Pavia, 12 February, 1799. His early education was received at the Jesuit College of Reggio. His scientific career began at the University of Bologna under the inspiration of his cousin, Laura Bassi, the famous woman professor of natural philosophy and mathematics. He gave up the study of law and was ordained a priest; at twenty-five he became professor of logic, metaphysics, and Greek in the University of Reggio. His favourite authors were Homer, Demosthenes, and St. Basil, and his work attracted so much attention that he was offered chairs at Coimbra (Portugal), Parma, and Cesena (Italy). He preferred a chair at Modena (1760) and devoted all his spare time to natural science. His work here brought offers of professorships at other Italian universities and from the Academy of St. Petersburg. In 1768, at the personal solicitation of the Empress Maria Theresa, he accepted the chair of natural history in the University of Pavia which was then being reorganized. He greatly enriched the museum here by collections made in journeys in Switzerland and along the Mediterranean. After the death of Vallisneri, whose chair at Padua had been the centre of interest in the natural sciences, Spallanzani was invited to take it, but the Austrian authorities doubled his salary and gave him a long leave of absence for a scientific expedition to Turkey to retain him. His home-coming was an ovation. He continued to make scientific journeys and special studies of Vesuvius and the volcanoes of Sicily and of the Lipari Islands. His contributions to every phase of physical science are valuable, but it was in biology that his work counted for most; his studies in regeneration are still classic."

**4491. 1812:** Travels in the Two Sicilies and some Parts of the Apennines ... Philadelphia, Kimber and Conrad, 1812.

4°: [ii], 272 pp, 3 copper engraved plates. PAGE SIZE: 26.5 x 22 cm

VERY SCARCE. Originally published in Italian in 1788, this edition was extracted from Pinkerton's General Collection of Voyages and Travels and with the original Pinkerton title page bound in. This edition had been somewhat abridged from the original and with only three plates (of Mount Etna). Cox i, 169: "The author was a scientist of note, greatly interested in volcanoes and their geology".

**4492. — German, 1789.**

Angestellt physikalische Beobachtungen auf der Insel Cythera, heut zu Tage Cerigo genannt, an den Hrn. Cap. Lorgna. Aus dem Italian. Strasburg, 1789.

## SPATH

8°: VERY SCARCE.  
REFERENCES: LKG: XIV 829.

### 4493. — German, 1791.

Abriß einer Reise nach den Phlegr. Gefilden, dem Aetna und den Aeolischen Inseln. Strasburg, 1791.

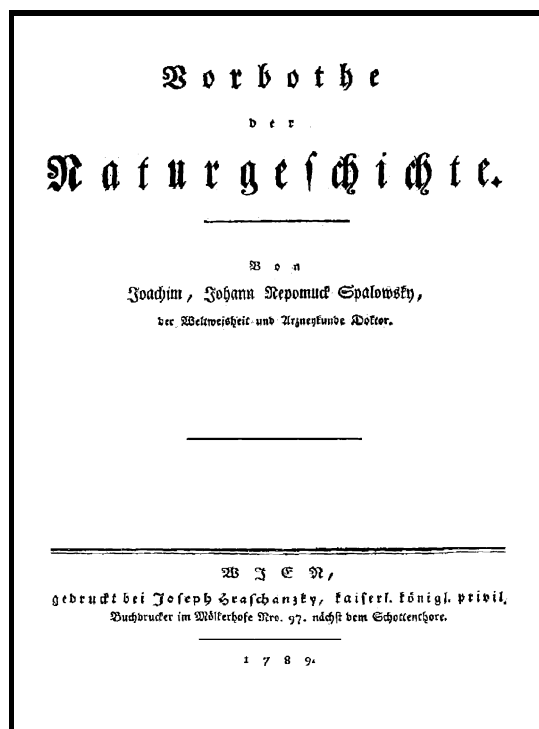
8°: VERY SCARCE.  
REFERENCES: LKG: XIV 625.

### SPALOWSKY, Joachim Johann Nepomuk Anton.

(BORN: 1752; DIED: Vienna, Austria, 17 May 1797)  
*Austrian physician, zoologist & botanist.*

Spalowsky was physician of the "Bürger-Regiment" in Vienna.

REFERENCES: DBA: I 1198, 218-221. • Hunt Botanical Catalog: 2, 412-3, no. 652. • Kabat, A.R., "J.J.N.A. Spalowsky (1752-1797) and the *Prodromus* in *Systema Historicum Testaceorum* (1795)," *Archives of Natural History*, 23 (1996), no. 2, 245-54. • Meusel, *Verstorbenen Deutschen Schriftsteller*, 1802-16. • Pritzel, *Thesaurus Literaturæ Botanicae*, 1871-3: no. 8814. • Stafleu & Cowan, *Taxonomic Literature*, 1976-88: 5, 772-3. • WBI. • Wurzbach, *Biographisches Lexikon Österreich*, 1856-91: 36, 56.



VORBOTHE DER NATURGESCHICHTE, 1789

### 4494. — German, 1789.

Vorbothe | der | Naturgeschichte. | [rule] | Von | Joachim, Johann Nepomuck Spalowsky, | der Weltweisheit und Arzneykunde Doktor. | [rule] | [double rule] | Wien, | gedruckt bei Joseph Hraschansky, kaiserl. königl. privil. | Buchdrucker im Mülkerhose Nro. 97. nächst dem Schottenthore. | [rule] | 1789.

4°: A-E<sup>4</sup>; 20l.; [1]-40 p., frontispiece, 25 plates (hand-colored). PAGE SIZE: 254 x 198 mm.

CONTENTS: [1-2], Title page, verso blank.; [3], Dedication.; [4], Blank.; [5]-8, "Vorbericht."; 9-10, "Hier is die Uibersicht dessen, was mein Vorbothe der Naturge= | schichte enthält."; 11-40, "Erläuterung."

PLATES: The frontispiece is signed J. Marlb. All the other plates are unsigned.

EXTREMELY RARE. A "prodromous" or prospectus for a proposed series of natural history volumes, which Spalowsky intended to publish. The magnificent plates show vivid coloring heightened with gold to show off the depictions. These pictures comprise 8 of mammals, 4 of birds, 3 of insects, 2 of fish, 4 of flowers, and 4 of minerals (gold, silver, copper fluorite, and malachite). The magnificently colored frontispiece shows a variety of animals, birds, and plants within a landscape. Unfortunately, this extremely rare prospectus is all that appeared.

Apparently two states of the plates exist, one plain and the other hand-colored.

REFERENCES: BL. • NUC: [no copy listed]. • Reiss & Sohn, Auctioneers: cat. 71 (2000), no. 2590. • Wheldon & Wesley, Booksellers: cat. 112 (1965), no. 158.

### SPATH, Joachim Friedrich.

#### 4495. — German, 1751.

Joachim Friderich Spaths | Entwurf | einer | Geschichte | der | Steinsamlungen | bis auf unsere Zeiten. | [rule] | Cicero | [...2 lines of quotation...] | [ornament] | [rule] | Berlin, | Im Verlag des Buchladens den Realschule. | 1751.

8°: A-B<sup>8</sup> C<sup>2</sup>; 18l.; [1]-36 p.

CONTENTS: [1-2], Title page, verso blank.; [3]-[4], "Vorbericht."; [5]-36, Text.

RARE. A satirical commentary on the whole concept of mineral collecting?

REFERENCES: BL: [B.255.(5.)]. • *Erlangen gelehrte Zeitschrift*: 1752, p. 4 ["Ist eine bloße Satyre."]. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 253. • LKG: XVII 33.

### SPENCER, Leonard James.

(BORN: Worcester, England, 7 July 1870; DIED: London, England, 14 April 1959) *English mineralogist.*

Spencer had studied chemistry at the Royal College of Science in Dublin. He thereafter attended Cambridge where in his final year he won the Harkness Scholarship for the best paper in geology of his year. His ambition had been to join the Geological Survey of India; however, no post was available. Therefore, Spencer applied for and was accepted into a vacant mineralogist position at the British Museum (Natural History) that had occurred with the death of Thomas Davies [1837-1892]. He remained with the British Museum the remainder of his working career, retiring finally in 1935. However, even in advanced age, he remained an active participant in geological and mineralogical activities. Notable among these was his adventure in 1934 at the age of 64 to investigate with P.A. Clayton the then unexplained deposit of almost pure natural silica glass in the Libyan Desert—this substance called "Libyan Glass" is now known to be of extraterrestrial origin. He was a longtime editor of the important mineralogical journals, *Mineralogical Magazine* and *Mineralogical Abstracts*. It is recorded that Spencer was active on his bibliographical work until a few days before his death. He was one of the best mineralogists

of his generation, winning the Roebling Medal from the American Mineralogical Society in 1941 and being elected a Fellow of the Royal Society.

REFERENCES: *American Mineralogist*: **45** (1960), no. 3-4, 403-06, portrait. • BBA: I 1026, 423. • *Biographical Memoirs of the National Academy of Science*: **7** (1961), 243-48, portrait. • Cleavelly, *World Palaeontological Collections*, 1983: 273. • DSB: **12**, 572-3 [by D. McKie]. • *Mineralogical Magazine*: **32** (1959), no. 246, 181-84, portrait. • Poggendorff: **4**, 1419, **5**, 1192 & **6**, ????. • Sarjeant, *Geologists*, 1980: **3**, 2168-2169 & Suppl. 2 (1995), **2**, 1098. • Smith, W.C., "Memorial to Leonard James Spencer (1870-1959)," *Proceedings Volume of the Geological Society of America. Annual Report for 1959*, **1960**, 157-8, portrait. • Smith, W.C., "L.J. Spencer's work at the British Museum," *Mineralogical Magazine*, **29** (1950), no. 211, 256-70, portrait. • Spencer, L.J., "Acceptance of the third Roebling Medal of the Mineralogical Society of America," *American Mineralogist*, **26** (1941), no. 3, 162-6, portrait. • WBI. • *World Who's Who in Science*: 1585.

**4496. — English, 1911** [First edition, London issue].  
The World's Minerals | By | Leonard J. Spencer,  
M.A., F.G.S. | Of the Mineral Department, British  
Museum | Editor of the Mineralogical Magazine  
| With Forty Coloured Plates | [ornament] | And  
Twenty-One Diagrams | London: 38 Soho Square,  
W. | W. & R. Chambers, Limited | Edinburgh:  
339 High Street | 1911.

8°: x, [2], 212 p., 40 color plates, 21 text illus.

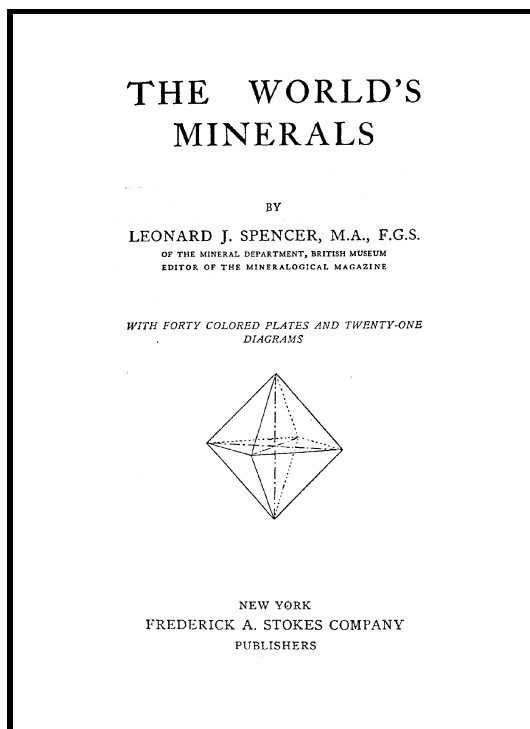
SCARCE. A good general treatment of mineralogy authored by the curator of the British Museum mineral collection, and notable for the 40 color plates of mineral specimens reproduced lithographically from hand painted originals.

"The text of this book on minerals is in the main descriptive of the 116 species of the more common simple minerals, which are illustrated by 163 figures on the colored-plates. Descriptions of a few other important species have been added. Technical terms are explained in the preliminary chapters; their use, however, has been avoided as far as possible, and an attempt has been made to present in popular language an interesting and readable account of the several kinds of minerals. Points of general interest are touched upon, and attention is drawn to such of the more prominent characters as will help the student and collector of minerals to identify his own specimens. Mention is also made of the various practical applications of minerals, their importance as ores of the metals, as precious stones, etc."

"The forty colored-plates have been prepared under the supervision of Dr. Hans Lenk, Professor of Mineralogy and Geology in the University of Erlangen, and many of the pictures represent actual specimens belonging to the mineral collection under his charge."  
— *Preface*.

REFERENCES: Dana's 7th (Bibliography): 81.

**4497. First edition, American issue, c1911:** The World's Minerals | By | Leonard J. Spencer, M.A., F.G.S. | Of the Mineral Department, British Museum | Editor of the Mineralogical Magazine | With Forty Coloured Plates And Twenty-One | Diagrams | [ornament] | New York | Frederick A. Stokes Company | Publishers.



THE WORLD'S MINERALS, c1911

8°: [i]-xi, [3], [1]-272 p., 40 chromolithographic plates, 21 text illus. PAGE SIZE: 196 x 128 mm.

CONTENTS: [i-ii], Half title page, "The World's Minerals," verso blank.; [iii-iv], Title page, verso "Copyright, 1911, by | Frederick A. Stokes Company."; v-vi, "Preface."—signed L.J.S.; vii-viii, "Contents."; ix-x, "List Of Plates."; xi, "Figures In The Text."; [1 pg], Blank.; [1 pg], "The World's Minerals."; [1 pg], Blank.; 1-259, Text.; [260], Blank.; 261-272, "Index."

SCARCE. This issue, printed about 1911, reprints the London original's text and plates.

**4498. 2nd edition, 1916:** The World's Minerals. By Leonard J. Spencer ... With an Appendix by W.D. Hamman ... covering and including rare minerals and ores ... New York: Frederick A. Stokes, [1916].

8°: xi, 327 p., 40 color plates, 21 text illus.

SCARCE. The appendix expands the text to include a discussion of the mineralogy of the rarer elements.

The Mineral Kingdom by Dr. Reinhard Brauns ... Translated, with Additions by Leonard J. Spencer ... (London, 1912).

See: Brauns, Reinhard Anton.

**SPENER, Johann Jacob.** (BORN: ; DIED: 1692)  
*German educator.*

Spener was professor of physics and mathematics at the University of Halle.

REFERENCES: Wilson, *History of Mineral Collecting*, 1994: 193.

Q.D.B.V. de Gemmis Errores Vulgares Dissertatio. (Leipzig, 1687).

See: Rechenberg, Adam.

**4499. — Latin, 1688** [Dissertation].

Q.D.B.V. | De | Magnete | Errores Variorum, |

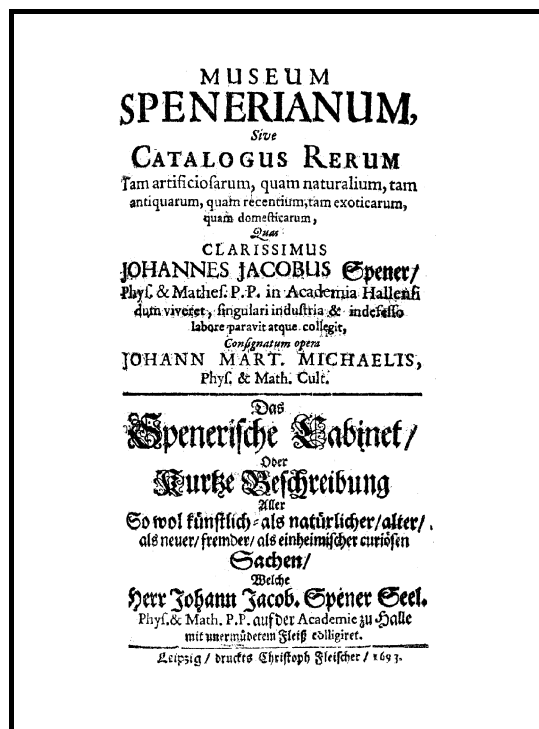
## ST. PETERSBURG

Qvos | Dissertatione Physica, | In | Academia  
Lipsiensi, | Notat | Certisque observationibus  
additis, refellis | Præses | M. Johannes Jacobus  
Spener, | Respondente | Joh. Mart. Michaelis, |  
Erfurt. Thuring. | d. 19. Maij M. DC. LXXXVIII.  
| H.L.Q.C. | [rule] | Lipsiæ, | Typis, Christophori  
Fleischeri.

4°: A-C<sup>3</sup>; 12ℓ.; [24] p. PAGE SIZE: 185 x 150 mm.  
CONTENTS: [2 pgs], Title page, verso blank.; [22 pgs],  
Text.

RARE. This dissertation on the properties of the  
magnet was defended by Johann Martin Michaelis [*fl.*  
1688-1693]. The magnet appears to have had held a  
particular fascination for Spener.

REFERENCES: BL: [536.f.10.(6.)]. • Gatterer, *Mineralo-  
gischen Literatur*, 1798-9: 2, 242. • VD17: 12:138695H.



MUSEUM SPENERIANUM, 1693

### 4500. — Latin & German, 1693 [Sale catalog].

Museum | Spenerianum, | Sive | Catalogus Rerum  
| Tam artificiosarum, quam naturalium, tam  
antiquarium, quam recentium, tam exoticarum, |  
quam domesticarum, | Quas | Clarissimus |  
Johannes Jacobus Spener/ | Phys. & Matthes.  
P.P. in Academia Hallensi | dum viveret, singulari  
industria & indefesso | labore paravit atque  
collegit, | Consignatum opera | Johann Mart.  
Micahelis, | Phys. & Math. Cult. | [rule] |  
Das Spenerische Cabinet/ | Oder | Kurtze

Beschreibung | Aller | So wol künstlich= als  
natürlicher/ alter/ | als neuer/ fremder/ als  
einheimischer curiosen | Sachen/ | Welche | Herr  
Johann Jacob. Spener Seel. | Phys. & Math. P.P.  
auf der Academie zu Halle | mit unermüdetem  
Fleiß colligiret. | [rule] | Leipzig/ druckts Christoph  
Fleischer/ 1693.

8°: A-N<sup>8</sup> O<sup>7</sup>; 111ℓ.; [1]-222 p.  
CONTENTS: [1-2], Title page, verso blank.; [3]-222,  
Text.

RARE. This catalog was compiled by Johann  
Martin Michaelis [*fl.* 1688-1693], a student of Spener's  
who defended his teacher's dissertation *De Magnete* in  
1688 [see entry above]. Michaelis also appears to be  
responsible for the dispersion of the collection through  
a series of sales. The text of the catalog is written in  
both German and Latin, and lists numerous specimens  
of mineralogical interest. Based upon the classification  
of the book, the collection consisted of (1) Mathematical  
Instruments, (2) Optical Devices, (3) Mirrors and  
Lenses, (4) Instruments used in the Study of Physics,  
(5) Magnets, (6) Earths, (7) Stones, (8) Precious and  
Semi-Precious Gemstones, (9) Ore Specimens, (10)  
Mussels and Shells, (11) Oriental Items, (12) Old Vases,  
and (13) Coins.

REFERENCES: Balsiger, *Kunst und Wunderkammern*,  
1970: p. 653-4. • BL: [728.b.30.]. • Gatterer, *Mineralo-  
gischen Literatur*, 1798-9: 1, 259. • Klemm, *Geschichte der  
Sammlungen*, 1837: pp. 219, 227 & 254. • Murray, *Muse-  
ums*, 1904: 1, 146 & 3, 185. • VD17: 14:637473A.

## ST. PETERSBURG, Russia. Imperatorskoe Mineralogicheskoe Obshchestvo.

(Imperial Mineralogical Society) Founded in 1817 by  
V.M. Severgin and D.I. Sokolov [qq.v.], among others.

As stated in its first charter, the Society was begun to  
investigate mineralogy in the broadest sense of the science.  
It sought to disseminate knowledge concerning minerals,  
rocks and ores. It was an important organization in the  
Russian empire and did a great deal to promote and inves-  
tigate the mineral and geological wealth of Russia and its  
dominions. One of its most important publication outside  
of its journals was *Materialy dlia Geologii Rossii* (28 vols.,  
St. Petersburg, 1869-1928), which was part of the effort the  
Society made in conducting a systematic geological survey  
of Russia from 1864 to 1882.

After the organization of the Geological Committee  
in 1882, the Society began to devote more attention to  
theoretical research in geology and mineralogy. E.S. Fy-  
dorov [q.v.] and his crystallographic research was partic-  
ularly important during the period. In 1919, the Soci-  
ety was reorganized as the *Vserossiiskoe Mineralogicheskoe  
Obshchestvo* (Russian Mineralogical Society), and in 1947  
it was renamed *Vsesoiuznoe Mineralogicheskoe Obshchestvo*  
(All-Union Mineralogical Society).

A collection of minerals was begun which for a time  
was placed on exhibit, but eventually it was given to the  
Mining Institute.

REFERENCES: Gerasimov, A.P., "Stoletnii iubilei  
Mineralogicheskogo obshchestva," *Geologicheskii vestnik*, 3  
(1918), nos. 1-6. • *Great Soviet Encyclopedia*: 16, 337.  
• Koksharov, N.I., "Piatidesiatiletanii iubilei imp. S.-  
Peterburgskogo mineralogicheskogo obshchestva," *Zapiski  
imp. S.-Peterburgskogo Mineralogicheskogo Obshchestva*, 1868,  
part 3.

**4501. — Russian, 1817.**

Постановление | Санетпетербургскаго | Минералогическаго | Общества, | Высочайше ушверженное | Въ 12. день Юня 1817. года. | [rule] | Сосныскоыъ члредумелы Общесмеа. | [tapered rule] | Въ | Санктпетербургѣ | невамано у М.Х. Иверсена, | 1817 года.

[TRANSLITERATED TITLE:]

Postanovlenie | Sanetpeterburgskago | Mineralogicheskago | Obshchestva, | Vysochaisheshchverzhdennoe | V 12. den' Iunia 1817. goda. | [rule] | Sosnyskoy chldredumeley Obshchesmea. | [tapered rule] | V | Sanktpeterburge | neiamano u M.Kh. Iversena, | 1817 goda.

8°:

VERY SCARCE. *Resolutions of the St. Petersburg Mineralogical Society* is the first publication of the Society. It lists the group's charter and the founding members.

REFERENCES: Solo'ev, *Mineralogicheskoe Obshchestvo*, 1967: 12 [reproduces the title page].

**4502. — Russian, 1830-42** [Periodical].

[Ornately engraved title page:] Труды | Минералогическаго | Общества | Высочайшимъ | Его Императорскаго | Величества | Соизволениемъ | учрежденнаго въ С. Петербургѣ | [vignette] | Санкмпмербургъ въ Рипографіи Н. Греча. | [ornate lines on either side and encircling:] 1830.

[TRANSLITERATED TITLE:]

Trudy | Mineralogicheskogo | Obshchestva | Vysochaishim | Ego Imperatorskago | Velichestva | Soizvoleniem | uchrezhdennago v S. Peterburge | [vignette] | Sankmpemerburg v Ripografii N. Grecha. | 1830.

2 vols. [VOL 1: 1830] 8°: [VOL 2: 1842] 8°: VERY SCARCE.

REFERENCES: Solo'ev, *Mineralogicheskoe Obshchestvo*, 1967: 28 [reproduces the title page]. • *Union List of Serials*: 5, 4434.

**4503. — German, 1842** [Periodical].

Schriften | Der | In St. Petersburg Gestifteten | Russisch-Kaiserlichen | Gesellschaft | Fur Die Gesamt Mineralogie. | I<sup>r</sup> Band. | I<sup>ste</sup> Abtheilung. | St. Petersburg, | 1842.

1 volume in 2 parts. [Part 1] 8°: [Part 2] 8°:

VERY SCARCE.

REFERENCES: Solo'ev, *Mineralogicheskoe Obshchestvo*, 1967: 36 [reproduces the title page]. • *Union List of Serials*: 5, 4434.

**4504. — German, 1843-58** [Periodical].

Verhandlungen | Der | Russisch-Kaiserlichen | Mineralogischen Gesellschaft | zu | St. Petersburg. | [rule] | Jahr 1843. | [rule] | Mit vier lithographirten

Tafeln. | [rule] | St. Petersburg, | Gedruckt Bei Carl Kray. | 1843.

15 vols. VERY SCARCE.

REFERENCES: Solo'ev, *Mineralogicheskoe Obshchestvo*, 1967: 38 [reproduces the title page]. • *Union List of Serials*: 5, 4434.

**4505. — German, 1862-3** [Periodical].

Verhandlungen der K. Gesellschaft für die gesammte mineralogie zu St. Petersburg.

2 vols.

VERY SCARCE. None published 1858-62.

REFERENCES: *Union List of Serials*: 5, 4434.

**4506. — Russian & German, 1866-** [Periodical].

Записки | Императорскаго С. Петербургскаго | Минералогическаго Общества. | [rule] | Втопая Серия. | Часть Первая. | [rule] | (Съ 6 таблицамм.) | [ornate rule] | Verhandlungen | Der | Russisch-Kaiserlichen Mineralogischen Gesellschaft | zu St. Petersburg. | [rule] | Zweite Serie. | Erste Band. | [rule] | (Mit 6 Tafeln.) | [ornate rule] | Санктпетербургъ, 1866. | Въ Типография Императорской Академіи Наукъ. | (В.О. 9 лик. No. 12)

?? vols. (to today). VERY SCARCE.

REFERENCES: Solo'ev, *Mineralogicheskoe Obshchestvo*, 1967: 68 [reproduces the title page]. • *Union List of Serials*: 5, 4434.

С.П. Соловьев Всесоюзное Минералогическое Общество К 150 – Лемью со бня Основануя (1817–1967). (Leningrad, 1967).

See: Solov'ev, Sergei Pavolich.



STAHL

**STAHL, Georg Ernst.** (BORN: Ansbach, Germany, 20 October 1660; DIED: Berlin, Germany, 4 May 1734) *German physician & chemist.*

His father was Johann Lorenz Stahl, who was "Fürstlicher Hof-Raths-Secretarius" until 1664 and "Secretär des Anhalt-Brandenburgischen Kirchenkonsistoriums" from 1664-72. 1679, matriculated at the University of

## STAINPEIS

Jena, where he studied medicine with Hoffmann, Rolfinck, and especially Georg Wolfgang Wedel. He received his M.D. in 1684. I assume a B.A. or its equivalent.

1684-7, he habilitated and lectured at the University of Jena as a Privatdozent. 1687-94, court physician at Weimar. 1694-1715, the second professor of medicine (there were two) at the new University of Halle. He received the reasonably low salary of 200 taler in 1698 and did not receive a raise until 1708. 1700-1 and 1710-11 he was Prorektor. There is explicit mention that he maintained a medical practice during these years. 1715-34, court physician at Berlin to Frederick William I of Prussia.

He was physician to the Dukes of Weimar, appointed by Duke Johann Ernst of Sachsen-Weimar. Frederick III, elector of Brandenburg, founded the University of Halle in 1694 in an effort to surpass his neighbors. He attracted Friedrich Hanke as first professor of medicine, who, needing help, was instrumental in Stahl's appointment as second professor of medicine.

He practiced medicine his entire career, both as court physician and professor of medicine. 1700, he became a member of the Kaiserlich-Leopoldinisch-Carolinisch-Deutsche Akademie with the name "Olympiodoros." He founded the short-lived chemical journal "Observationum chymico-physico-medicarum curiosarum mensibus singulis horro cum Deo continuandarum" (1697-8). 1715, he became the president of the Collegium medicum, the highest medical association in Prussia.

REFERENCES: ADB: **35**, 780-6. • DBA: I 512, 63-72; 1209,380-400; II 1248, 290-303. • Hirsch, *Biographisches Lexikon*, 1884-8: **5**, 384-5. • Hirsching, *Historisch-literarisches Handbuch*, 1794-1815. • Jöcher, *Gelehrten-Lexikon*, 1750-51. • Poggendorff: **2**, cols. 979-80. • Schaedler, *Biographisch Handwörterbuch*, 1891: 125-6. • Strube, I., *Georg Ernst Stahl in: Biographien hervorragender Naturwissenschaftler, Techniker, und Mediziner*, **76** (Leipzig, BSB B.G. Teubner, 1984). • WBI.

### 4507. — Latin, 1700.

O.J.H.D.E.P.E. | Metallurgiæ | Pyrotechnicae, Et | Docimasæ Me- | tallicae | Fundamenta, | Deo Benedicente, | Rectore Magnificentissimo, | Serenissimo Principe Ac Domino, | Dn. Friderico Wilhelmo, | Electorat. Brandenb. Herede E.R. | In Illustri Fridericiana | Consensu Gratoso Facultatis Medicæ, | Præside | Viro Excellentissimo Atque Experientissimo | Dn. Georgio Ernesto Stahl, | [...2 lines of titles and memberships...] | Pro Licentia | Summos In Medicina Honores Et Privilegia Rite Consequendi, | Eruditis placi le disquirenda exhibet | Joh. Christianus Fritschius, | Schvartzgurgicus. | Ad d. Mart. MDCC. | In Auditoriomajori, horis ante- & pomerid. | [rule] | Halæ Magdeburg. Typis Joh. Jac. Krebsii, Acad. Typogr.

4°:  $\pi^1$  A-??; [2], 86 p. VERY SCARCE.

REFERENCES: VD17: 1:062043K.

### 4508. — Latin, 1700.

Georgii Ernesti Stahl, | [...2 lines of titles and memberships...] | Propempticon | Inaugurale | De | Ortu Venarum | Metalliferarum.

4°: A<sup>4</sup>; 4 $\ell$ .; [8] p. VERY SCARCE.

CONTENTS: [1 pg], Title page.; [7 pgs], Text.

REFERENCES: Hoover Collection: no. ??; • LKG: XVI 65. • VD17: 12:162671Y.

### 4509. — German, 1744.

Materia Medica. Das ist: Zubereitung, Krafft und Würckung, Derer sonderlich durch Chymische Kunst erfundenen Artzneyen. Darinnen sowohl die fürnehmsten Gold-, Silber-, Stahl-, Kupffer-, Bley-, Zinn-, Mercurial-Artzneyen angeführt, als auch andere aus Mineralien genommene Mittel beygebracht, wie nicht weniger die besten Medicamenta aus den Vegetabilien und Thieren communiciret werden. Seiner Würdigkeit wegen aus dem Lateinischen ins Teutsche übersetzt, und zum dritten mahle aufgelegt nebst einem Anhang von denen Specificis. 3.Ausg. 2 Bde.in 1. Dresden, Nikolaus Gerlach, 1744.

8°: 340, [10] p.; [24], 173, [10] p. VERY SCARCE.

### 4510. — Latin??, 1744.

Anweisung zur Metallurgie, oder der metallischen Schmelztz- und Probierr-Kunst. Leipzig, Schönermarck, 1744.

[16], 144 p.; [8], 407, [16] p. VERY SCARCE.

**STAINPEIS, Martin.** (BORN: late 1450's; DIED: Vienna, Austria, 14 July 1527) *Austrian physician.*

Stainpies matriculated at the University of Vienna in April, 1476, gaining his medical degree in 1488 and his licence to practice medicine on 23 September 1490. He became professor of medicine at the Vienna Medical School, and between 1496 and 1510 he was eight times elected Dean of the medical faculty. By 1510 he was one of the senior doctors at the medical school. In the plague year of 1511, Stainpeis criticized colleagues who fled the city, and was called before a committee investigating this slander. After his refusal to appear, Stainpeis' faculty privileges were revoked. He wrote several medical tracts, the last of which is considered the first printed introduction to the study of medicine.

REFERENCES: Durling, R.J., "An early manual for the medical student and the newly-fledged practitioner: Martin Stainpeis' *Liber de modo studendi seu legendi in medicina* ([Vienna], 1520)," *Clio Medica*, **5** (1970), 7-33. • Jöcher, *Gelehrten-Lexikon*, 1750-51: **4**, 800. • Puschmann, T., *A history of medical education from the most remote to the most recent times. Translated and edited by Evan H. Hare.* London, H.K. Lewis, 1891: 240, 251, 253 & 255. • Schwarz, I., *Geschichte des Wiener Apothekerwesens im Mittelalter ...* Wien, Verlag des Wiener Apotheker-Hauptvereins, 1917: 137. • Wellcome Catalog (History): **18**, 68.

### 4511. — Latin, c1510.

Lapidariū omni voluptate | refertū: & medicine pluri= | ma notatu signiffima | expermēta cō= | plectens. | Opvs De Lapidibvs Pre= | clarū: mliāq<sub>3</sub> uolupate refertū:in quo de singulis lapidibus nedum pcolis: | uerū eciam de reliquis quibus uirtutis | aliquid inesse cōstat: & de pcolorum | lapidum sophisticatione:& naturalīū | ac artificialium discretione:notatu di= | gnissima reperies:per quendā artiū ac | medicine doctore editū atq<sub>3</sub> collectū.

4°: a-g<sup>4</sup>; 28 $\ell$ .; no pagination. Title printed in gothic letter and Roman type. Text printed in Roman

**Lapidariū omni voluptate  
refertū: & medicīne pluri-  
ma notatu dignissima  
experimēta cō-  
plectens.**

**OPVS DE LAPIDIBVS PRE-  
clarū: in fraguoluptate refertū: in quo  
de singulis lapidibus, nedūm p̄ciosis:  
uerū etiam de reliquis quibus uirtutis  
aliquid inesse cōstat: & de p̄ciosorum  
lapidum sophistatione: & naturalium  
ac artificialium discretione: notatu di-  
gnissima reperies: per quendam artium ac  
medicīne doctorē editū atq; collectū.**

a

LAPIDARIŪ, c1510

type. Colophon: Vienna: Io. [Johann] Winterburger.  
PAGE SIZE: 205 x 145 mm.

CONTENTS: a1r, Title page.; a1v-blv, Introduction.;  
b2r-g4v, Stone descriptions.; g4v, Colophon.

VERY RARE. Published anonymously, authorship of this interesting and rare lapidary is now generally attributed to Martin Stainpeis. The work is also undated, but is thought to have been printed after the year 1500, probably around 1510. The text is divided into two parts. The first containing the introductory material is composed of 13 chapters (Adams says 12 chapters). At the outset the author states that the purpose of this work is "first to give such information concerning the various minerals as will enable them to be recognized, and second to set forth their origin, virtues and properties" (Adams, 1938). A general description of the particular virtues and properties is explained in the first part of the book. Included are chapters on how the properties manifest themselves, how a weak virtue may be strengthened and the differences between the mystical powers of natural and artificial stones. Throughout, the author denounces those who believe gems do not possess heavenly powers as ignorant fools. He supports this argument by reminding the reader that great authorities such as Aristotle and Plato recognized these qualities as inherent to a stones existence.

The second part of the text is a descriptive list of 117 stones in alphabetical order. Under each name there is a commentary about the individual properties

and virtues attributed to the stone. This commentary is largely based upon the writings of Albertus Magnus, Pliny, Evax, Avicenna and Serapion. In fact, many of the notes are copied directly from Albertus Magnus, although some stories of anecdotal nature are also interspersed.

REFERENCES: Adams, *Birth and Development*, 1938: 146-7. • BL: [1255.d.11.]. • Copinger, *Hain's Repertorium, Supplement*, 1898-1902: no. 3492. • Dolch, W., *Bibliographie der Österreichischen Drucke 15. und 16. Jahrhunderts*. Vienna, 1913: 1, pt. 1, no. 129. • Glasgow University. *The printed books in the library of the Hunterian Museum*. Glasgow, 1930: 210. • Goff: L-64. • NLM 16th Century Books (Durling): no. 2736. • NUC: 316, 45 [NL 0094668-71]. • Schullian & Sommer, *Catalogue of Incunubula*, 1948: no. 277. • Sinkankas, *Gemology Bibliography*, 1993: no. 3779.



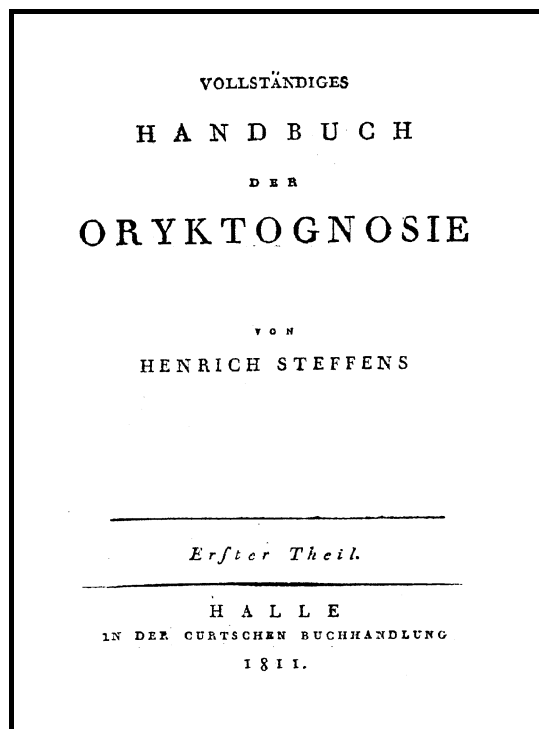
STEFFENS

**STEFFENS, Henrik.** (BORN: Stravanger, Norway, 2 May 1773; DIED: Berlin, Germany, 13 February 1845) *Danish physician.*

Steffens graduated in philosophy and medicine from the University of Kiel (1797 and 1815). In 1789, he was a private docent at the University of Kiel and from 1802 to 1804 at the University of Copenhagen. From 1804 to 1811, he was employed professor of mineralogy at the University of Halle. This was followed by an appointment as professor ordinary of physics and philosophy of natural history at the University of Breslau from 1811 to 1832. Steffens completed his career as professor of philosophy at the University of Berlin. He was a member of the Academie of Wissenschaften [Academy of Science] in Berlin.

REFERENCES: ADB: 35, 555. • *Dansk Biografisk Haandleksikon*: 3, 466-7, portrait. • *Dansk Biografisk Lexikon*: 16, 350-6 [by K. Kroman & V. Hintze]. • DBA: I 1215, 281-314; II 1254, 24-56. • Drugulin, *Sechstausend Portraits*, 1863: no. 5262-3 & 6286. • *Encyclopaedia Britannica*, 11th edition. • Garboe, *Geologiens Historie i Danmark*, 1959-61: 1, 169-70, portrait. • Hamberger & Meusel, *Gelehrte Teutschland*, 1796-1834. • Hüssy, E.R., "Henrich Steffens (1773-1845)" (vol. 3, pp. 264-80), in: *Schleisische Lebensbilder*. Breslau, W.G. Korn, 1931. • *ISIS*, 1913-65: 2, 502. • Poggendorff: 2, cols. 988-9. • SBA: Scandinavian Biographical Archive: A-308, 338-396. • Volbehr & Weyl, *Professoren zu Kiel*, 1916: 143. • WBI. • *World Who's Who in Science*: 1600.





VOLLSTÄNDIGES HANDBUCH, 1811

**4512. — German, 1811-24.**

Vollständiges | Handbuch | der | Oryktognosie | von | Heinrich Steffens | [rule] | Erster [-Vierter] Theil. | [tapered rule] | Halle | In Der Curtschen Buchhandlung | 1811 [-1824].

4 vols. [VOL 1: 1811] 12°:  $\pi^{12}$  1-21<sup>12</sup> 224; 268 $\ell$ .; [i]-xxiv, [1]-212 (i.e., 512) p. [VOL 2: 1815] 12°:  $\pi^2$  1-18<sup>12</sup>; 216 $\ell$ .; [4], [1]-428 p.; [VOL 3: 1820?] 12°:  $\pi^1$  1-17<sup>12</sup>; 206 $\ell$ .; [2], [1]-408, [2] p.; [VOL 4: 1824] 12°:  $\pi^{12}$  \*<sup>12</sup> 1-30<sup>12</sup>; 384 $\ell$ .; [2], [i]-xlvi, [1]-432, [2], [433]-720 p.

CONTENTS: [Vol 1] [i-ii], Title page, verso blank.; [iii], Sectional title page, "Erd- | und | Steinarten."; [iv], Blank.; [v]-xii, "Vorrede."; [xiii]-xiv, "Verzeichnis | der Wichtigsten Abkürzungen."; [xv]-xviii, "Verkürzung | der an häufigsten Citirten Schriften."; [xix]-xxiv, "Classification Der Kieselreihe."; [1]-497, Text.; [498]-212 (i.e., 512), "Register."

[Vol 2] [2 pgs], Title page, verso blank.; [2 pgs], "Vorrede."; [1]-420, Text.; [421]-428, "Register."

[Vol 3] [2 pgs], Title page, verso blank.; [1]-420, Text.; [403]-408, "Register."; [1 pg], "Bemerkungen."; [1 pg], Blank.

[Vol 4] [2 pgs], Blank, verso series title page, "Vollständiges | Handbuch | der | Oryktognosie | von | Heinrich Steffens | [rule] | Suplemente. | [tapered rule] | Halle | In Der Curtschen Buchhandlung | 1824."; [i-ii], Title page, verso blank.; [iii]-xxxiv, "Einleitung."; [xxxv]-xlvi, "Classification." [=overview of the classification system].; [1]-432, Text.; [433], "Suplemente."; [434], Blank.; [435]-583, Text of supplement.; 584-670, "Supplement | Zum Zweiten Theile."; 671-694, "Supplemente | Zum Dritten Theile."; 695-708, "Supplemente | Zum Vierten Theile."; [709]-720, "Register."

RARE. This considerable handbook distinguished itself from all similar works of the period. The compilation is made from a praise worthy compactness, with thoroughness and a true critical circumspection. Above all else one finds interspersed through out the volumes highly interesting and important comments. No mineralogist's library should lack this publication. At the end of volume four, with its own title page is a supplement. Due to its appearance over 14 years this is a rare work in complete sets.

REFERENCES: BL: [445.a.35.]. • Dana's 7th (Bibliography): 81. • GV (1700-1910): 139, 47-8. • Leonard's Taschenbuch: 6 (1811), 309 & 11 (1815), 583-4. • LKG: XII 188. • NUC: 566, 339-42 [NS 0890493].

**4513. — German, 1801.**

Beyträge zur innern Naturgeschichte der Erde von Heinrich Steffens. Erste Theil. Freyberg, Im verlag der Crazischen Buchhandlung, 1801.

8°: [8], 317, [1] p.

RARE. No more published. Considers theories of the inner earth.

REFERENCES: BL: [440.1.3.]. • LKG: XIII 218. • NUC: 566, 339-42 [NS 0890448].

**4514. — German, 1810.**

Geognostisch-geologische Aufsätze, als Vorbereitung zu einer innern Naturgeschichte der Erde. Hamburg, B.G. Hoffmann, 1810.

8°: xxvii, [3], 337, [1] p.

VERY SCARCE. First edition of one of the most important geological writings of Steffens (1773-1845), German scientist, philosopher, and man of letters. He was a professor of mineralogy at the University of Halle and later professor of natural philosophy at the University of Breslau. Steffens made important contributions to our understanding of the origins of coral atolls (see Zittel). Good copy. Quite scarce. Poggendorff, II, 988-99.

REFERENCES: BL: [990.g.30.]. • LKG: XIII 219a. • NUC: 566, 339-42 [NS 0890460].

**4515. — German, 1797.**

Über Mineralogie und das mineralogische Studium. Altona, 1797.

8°: EXTREMELY RARE.

REFERENCES: BL: [no copy listed]. • LKG: XII 198. • NUC: [no copy listed].

**STEIN-BÜCHLEIN.**

See: Volmar.

**STEINER, Carl Joseph.****4516. — German, 1895 [First edition].**

Das Mineralreich | nach | seiner Stellung in Mythologie und Volksglauben, in Sitte und Sage, | in Geschichte und Litteratur, im Sprichwort und Volksfest | [rule] | Kulturgeschichtliche Streifzüge | von | Carl Joseph Steiner. | [ornate rule] | Gotha. | Verlag von E.F. Thienemann | 1895.

8°: [i]-x, [1]-142 p. Paper wraps. PAGE SIZE: 200 x 140 mm.

CONTENTS: [i-ii], Title page, verso blank.; [iii]-viii, "Vorwort."—signed Carl Joseph Steiner, 24 December 1894.; [ix]-x, "Übersicht des Inhalts."; [1]-130, Text.; [131]-140, "Anhang."; 140-142, "Alphabetisches Register."

RARE. Discusses secret and magic charms, amulets and talismans derived from precious stones and other object of the mineral kingdom. It provides a complete account of the ancient, historical, medieval and modern magical charms, giving many prescriptions and examples.

REFERENCES: BL. • NUC. • Sinkankas, *Gemology Bibliography*, 1993: [no copy listed].

**STELLA, Erasmus.** (BORN: c1450; DIED: Zwickau, Germany, 1521) *German physician.*

Stella (or Stüler) studied medicine at the Universities of Leipzig and Bologna, from where he received his M.D. He was appointed town physician of Zwickau in 1501, later becoming burgomeister.

REFERENCES: ADB: 36, 30-1. • Hirsch, *Biographisches Lexikon*, 1884-8: 5, 412. • WBI.



GEMMIS LIBER UNICUS, 1517

**4517. — Latin, 1517** [First edition].

[Contained within an elaborate woodcut border:]  
 Erasmi Stellae | Libonothani | Interpra= |  
 Tamenti | Gemma= | Rym Li= | Bellvs | Vni= |  
 Cvs. | Sola salus seruire deo, | Sunt coetera fraudes.

4°: 21ℓ.; no pagination, signatures or foliation.  
 COLOPHON: "Finit libellus de Gemmis doctoris Erasmi Stueler Zuickauiensis phisici & senatoris precipui quem

Nurembergæ imprimebat Federicus Peypus Mense sextili Anno partus virginie MDXVII." [=Nürnberg, Friedrich Peypus, 1517]. PAGE SIZE: 130 x 90 mm.

VERY RARE. One of the earliest 16th century treatises on mineralogy and precious stones. It is a different type of lapidary, with its arrangement of gems and minerals according to color rather than the typical alphabetical sequence. The four classes are white, green, red and blue or black. Thus are classified: I. De gemmis candidis, including diamond, rock crystal, iris, ceraunia & astroite, pederote, asteria, achate, dracinite, allectorio, and margaritis. II. De gemmis viridibus, including smaragdo (emerald), beryllis, chrysoprasio, topatio, callaide, prasio, heliotropio, jaspide. III. De gemmis rubeis, including carbuncolorum generibus, amthysto, hyacintho, sarda, sardonyce, anyce, hematite, corallio, hephesite, chrysolito, electro, and opalo. IV. Gemmis coeruleis & nigris, including cyaneo, saphiro, calaide & ceraunia, de moris gemmis, de gemmis ad ectypam, etc. Adams (1938) notes that the descriptions are better than earlier works, although Thorndike (1923-58) declares the work "little more than a compilation from Greek and Latin writers, above all, Pliny ..."

A remarkable feature of the work is the beautiful woodcut border surrounding the title, depicting an architectural frame with the figures of St. Peter and St. Barbara and two putti holding the Nuremberg arms. This fine cut is thought to be by Dürer's pupil Erhard Schön (Dodgson, 1911).

REFERENCES: Adams, *Birth and Development*, 1938: p. 148. • Dodgson, *Catalogue of Early German and Flemish Woodcuts*, 1911: 1, 423, 3, note. • Gatterer, *Mineralogischen Literatur*, 1798-9: 2, 16. • LKG: XVI 188. • NUC: 567, 255 [NS 0903821]. • Roller & Goodman, *Catalogue*, 1976: 2, ??.

• Sinkankas, *Gemology Bibliography*, 1993: no. 6331 [not seen]. • Thorndike, *History of Magic*, 1923-58: 6, 302. • Ward & Carozzi, *Geology Emerging*, 1984: no. 2105.

**4518. 2nd edition, 1530:** 20 Erasmus | Stellae Libanotha | Ni Viri Clariss. | De gemis libellus | unicus. | Plinius secundus de | gemmis. | Ioannes Syluius. E= | granus ad Lect. | Oblectant si te Prasijs, gemmaeq; nitentes | Si tibi Hyacinti, Sardonicessq; placent | Crysolitus, durussq; Adamas, uiridesq; Smaragdi | Purpureussq; Ion, multicolorq; Mitrax | Aethiopes, Cyprus, quicquid misere uel Indi | Si placet, & quicquid dat mare caeruleū | Hunc lege cōcinna moneo breuitate libellū | Qui dabit ingenio noscere tanta tuo. | Argentorati per Henri= | cum Sybold.

8°: A-H8; 64ℓ.; no pagination or foliation.

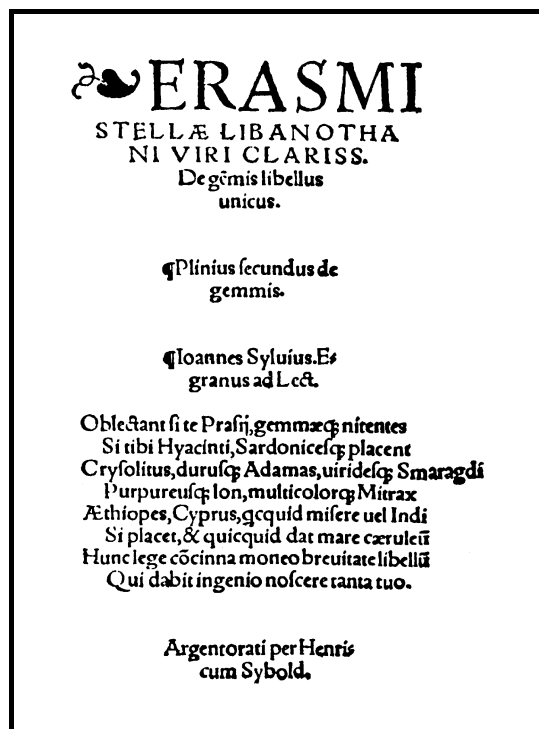
Ornamental initials and chapter ornaments. PAGE SIZE: 151 x 102 mm.

CONTENTS: A1, Title page, verso blank.; A2, Dedication.; A3r-D5r, "Gemmarum libellus unicus."; D5v, Blank.; D6r-H8r, Pliny's *Historiae de gemmis*; H8v, Blank.

VERY RARE. The first portion contains Stella's treatise on gemstones while a second part reproduces Pliny's Book 37 on the gemstones. This edition was edited by Heinrich Seybold [fl. 1528-1530], who dates the dedication: cale[n]dis Ianuarijs [sic] 1.5.3.0. (=January, 1530).

Dedication dated by the editor, Heinrich Seybold: cale[n]dis Ianuarijs [sic] 1.5.3.0. "Caii Plinii Secvndi Naturalis historiae [lib. XXXVII] de gemmis": p. [57]-[128].

REFERENCES: BM/STC *German*: 831. • *Freilich Sale Catalog*: no. 375. • NUC: 567, 255 [NS 0903820]. •



GEMMIS LIBER UNICUS, 1530

Sinkankas, *Gemology Bibliography*, 1993: no. 6332. • Wellcome Catalog (Books): 1, no. 6063.

4519. 3rd edition, 1736: Erasmi Stellæ, | Libanothani, | Interpretamen- | Ti Gemmarvm. | Libellvs Vnicvs | Plinijs Secvndvs | De | Gemmis. | [rule] | Joh. Syluius. Egranus ad lect. | [...8 lines of gemstone descriptions...] | [rule] | Sola salus seruire Deo, | Sunt coetera fraudes. | [rule] | Erfvrti Et Lipsiæ. | Apud Carol. Frid. Jvngnicolvm, MDCCXXXVI.

8°: A-H4 I2; 32ℓ.; [1]-64 p. PAGE SIZE: 204 x 162 mm.

VERY SCARCE. Although not indicated on the title page, LKG records this edition was edited by FRANZ ERNST BRÜCKMANN.

REFERENCES: BL: [444.c.50.]. • BMC. • NUC: 567, 255 [NS 0903822]. • Sinkankas, *Gemology Bibliography*, 1993: no. 6333.

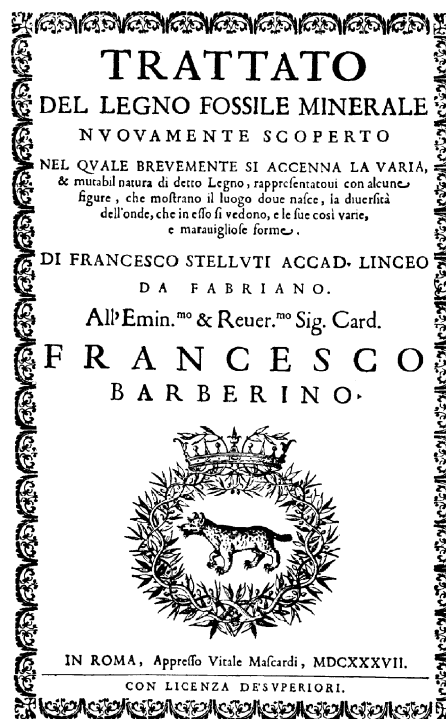
**STELLUTI, Francesco.** (BORN: Fabriano, Italy, 12 or 29 January 1577; DIED: Fabriano, Italy, 20 November 1646) *Italian naturalist & poet.*

Stelluti was born to a patrician family of Fabriano, which intended that he study law. For this purpose he was sent to Rome towards the end of the sixteenth century. In Rome, Stelluti became friends with Federico Cesi and Johannes Eck, with whom they founded the Accademia dei Lincei in August 1603. His pseudonym at the academy was Tardigradus, and he took as his symbol the planet Saturn. In 1604 Stelluti was forced to retreat to his native Fabriano, due to increasing hostile attacks towards the secret brotherhood of the the Lincei. After a period of quiet, the Academy was revived, and Stelluti returned to Rome in 1608 or 1609.

After initially rejecting Galileo's *Sidereus Nuncius* (Rome, 1610), Stelluti was eventually won over by the theory, and a sustained correspondence began between the two. Their relationship grew to such a bond that Stelluti

wrote introductory verses for Galileo's other works, *Istoria e Dimostrazioni Intorno alle Macchie Solari* (Rome, 16??) and *Il Saggiatore* (Rome, 16??). In 1625, Stelluti made the first microscopic observations to be published, perhaps with an instrument supplied by Galileo. The volume that appeared was titled, *Persio Tradotto in Verso Sciolto* (Rome, 1630), and shows in the illustrations various insects and their anatomy at different magnification.

REFERENCES: ABI: II 599, 230. • DSB: 13, 29-30 [by A.G. Keller]. • Gabrieli, G., "Francesco Stelluti, Linceo Fabrianese," *Atti della Reale Accademia Nazionale dei Lincei. Memorie della classe di scienze morali, storiche e filologiche*, 2 (1941), 191-233. • Gabrieli, G., "Il carteggio scientifico ed accademico fra i primi Lincei 1603-30," *Atti della Reale Accademia Nazionale dei Lincei. Memorie della classe di scienze morali, storiche e filologiche*, 1 (1925), 137-219. • Poggendorff: 2, col. 1000. • Ramelli, C., "Discorso intorno a Francesco Stelluti da Fabriano," *Giornale arcadico di scienze, lettere ed arte*, 87 (1841), 106-44. • Singer, C., "The earliest figures of microscopic objects," *Endeavour*, 12 (1953), 197. • WBI. • *World Who's Who in Science*: 1604.



TRATTATO, 1637

4520. — Latin, 1637.

[Contained within an ornately bordered box:] Trattato | Del Legno Fossile Minerale | Nvovamente Scoperto | Nel Qvale Breuelemente Si Accenna La Varia, | & murabil natura di derro Legno, rappresentatoui con alcune | figure, che mostrano il luogo doue nasce, la diuersità | dell'onde, che in esso si vedono, e le sue così varie, | e marauigliose forme. | Di Francesco Stellvti Accad. Linceo | Da Fabriano. | All'Emin.º & Reuer.º Sig. Card. | Francesco | Barberino. | [ornament] | In Roma,

Appresso Vitale Mascardi , MDCXXXVII. | [rule]  
| Con Licenza De'Superiori.

2°: A6; 6ℓ.; [1]-12 p., one folding map (double-page), 12 plates (one folding). Printer's device on page 12.

CONTENTS: [1-2], Title page, verso blank.; 3-4, Dedication to Cardinale Francesco Barberino, signed Francesco Stelluti.; 5-12, Text.; [At end], One folding map (double-page), 12 plates (one folding).

VERY RARE. An account of the fossilized wood found in the region of Todi in central Italy. It is based upon FEDERICO CESI's theories of a class of "metallophytes" intermediate between metals and plants, and possessing properties of both. Stelluti explains how he had abandoned his own idea that these fossils were simply buried, mineralized tree trunks.

REFERENCES: Brunet: 5, 530 ["Dissertation curieuse et rare."]. • LKG: XVI 290. • Ward & Carozzi, *Geology Emerging*, 1984: no. 2107.

#### STENGEL, Joannes Nicolaus de.

4521. *Dissertation, 1777: Lapidēs | In | Ordinem Systematicum | Digesti. | [double rule] | Quando | Auspice Deo Opt. Max. Fonte Veritatis | Faventibus | Divis Philosoph. Tutelaribus | Praeside Joanne Schwab, | [...3 lines of titles and memberships...] | Selectas | Ex | Universa Philosophia Positiones | Pro Suprema Philosophiae Laurea Conse- | quenda Defendendas Suscepit | Illust. Ornat. Ac Pererudit. Dominus | D.J. Nicolaus de Stengel, | Mannheimensis S.C.C. | Philosophi. Baccalaureus, Utriusque Physices | Ac Mateseos Auditor | Defendentium Primus. | Heidelbergae In Aula Academica | Die Augusti MDCCLXXVII. | [rule] | Typis Joannis Bapt. Wiesen, Univers. Typographi.*

4°: 86 p.

VERY RARE.

Schwab, Johann // Bonn, Friedrich // Stengel, Johann Nicolaus de

REFERENCES: BL: [953.a.4.]. • *Leipziger allgemeines Verzeichniss*: 1778, 656. • LKG: XII 74.



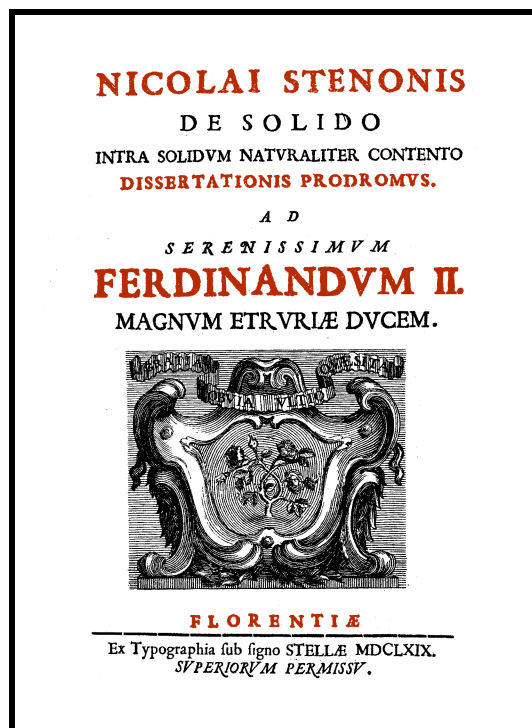
STENO

**STENO, Nicolaus.** (BORN: Copenhagen, Denmark, 10 January 1631; DIED: Schwerin, Mecklenburg, Germany, 25 November 1687) *Danish physician & theologian.*

Steno (or non-Latinized Stensen) attended the University of Copenhagen from 1656 to 1660. He then went on to Amsterdam, but received an M.D. in absentia from the University of Leiden in 1664. Steno became professor of anatomy at the University of Padua in Italy. He was also appointed house physician to Grand Duke Ferdinand II of Tuscany. During this decade, the greater part of Steno's available time was taken up by his studies of human anatomy, geology and catholicism. This is also the period when his greatest contributions to science were written. In 1672, he returned for a time to Denmark, but came back to Italy in 1674. Ordained a priest in the Roman Catholic Church in 1675, Steno devoted the remainder of his life to the church in a progression of appointments. Steno ended his life as a bishop in Numster, Germany.

A skilled anatomist and dissector Steno was the first to show the role of the parotid gland in the production of saliva. He also studied the structure of muscles and sinews, and applied mechanical laws to the principal of muscular contraction.

REFERENCES: ADB: 36, 51. • Barr, *Index to Biographical Fragments*, 1973: 249. • *Dansk Biografisk Lexikon*: 16, 310-22 [by J. Petersen & V. Hintze]. • DSB: 13, 30-5 [by G. Scherz, and listed under Stensen]. • *ISIS*, 1913-65: 2, 504-5. • Lambrecht & Quenstedt, *Catalogus*, 1938: 413-4. • Meisen, *Prominent Danish Scientists*, 1932. • Poggendorff: 2, cols. 1002-3. • Sarjeant, *Geologists*, 1980: 3, 2185-8, Suppl. 1 (1986), 2, 799-800 & Suppl. 2 (1996), 2, 1107-8. • SBA: Scandinavian Biographical Archive: A-307, 259-310. • WBI. • *World Who's Who in Science*: 1604. • Worm, *Forsøg til et Lexicon over Danske*, 1771-84.



SOLIDO INTRA SOLIDUM NATURALITER, 1669

## STENO

### 4522. — Latin, 1669 [First edition].

[In red:] Nicolai Stenonis | [in black:] De Solido  
| Intra Solidum Natraliter Contento | [in red:]  
Dissertationis Prodomus. | [in black:] Ad |  
Serenissimvm | [in red:] Ferdinandvm II. | [in black:]  
Magnvm Etrvriæ Ducem. | [ornament] | [in red:]  
Florentiæ | [rule] | [in black:] Ex Typographia sub  
signo Stellæ MDCLXIX. | Ssuperiorvm Permissv.

4<sup>o</sup>:  $\pi^1$  A-K<sup>4</sup>; 41 $\ell$ .; [2], 1-78, [1] errata, [1] blank p.,  
one folding engraved plate and a folding printed leaf of  
“Explicatio.” Title page printed in red and black with  
an engraved vignette. The plates shows different crystal  
forms and a diagrams of stratifications of the earth’s  
crust. PAGE SIZE: 362 x 248 mm.

CONTENTS: [2 pgs], Title page, verso blank.; 1-76,  
Text.; 77-78, Printing permissions.; [1], Errata.; [1], Blank.;  
[At end], One folding plate, “Explicatio Figvrvrm,”  
measuring 360 x 470 mm.

RARE. The greatest contribution to crystallogra-  
phy, paleontology and geology made during the se-  
venteenth century was Steno’s *De Solido Intra Solidum  
Naturaliter*. Within this volume, intended as an intro-  
duction to a much larger never published work, Steno  
while studying quartz observes for the first time the  
fundamental crystallographic law of constancy of inter-  
facial angles, which was confirmed and generalized over  
a century later with the invention in 1783 of the con-  
tact goniometer by Arnould Carangeot [see note below].  
Steno was also the first to recognize the principle of  
superposition that states sedimentary rocks were origi-  
nally laid down horizontally, while non-horizontally re-  
sults from strata being deformed by later forces. As an  
integral concept within this principle, the author real-  
ized that the oldest strata were the first to be formed  
and that overlying stratum must have been deposited  
at later times. If this were not enough “firsts” for one  
book, the *Prodromus* was also important in the history  
of paleontology, as it was among the earliest publica-  
tions to attribute fossils to be the petrified remnants of  
animals and plants.

The plate was originally created as a large double  
plate, half engraved and half printed. However, due to  
its large size it is common to find it bound into the book  
as two plates.

Arnould Carangeot. (BORN: Rheims, France, 1742;  
DIED: Meaux, France, 1806) *French crystallographer*.

[  
[  
[ BIOGRAPHY NEEDED ]  
[  
[ ]

REFERENCES: Adams, *Birth and Development*, 1938:  
357-64. • Burke, *Origins of the Science of Crystals*, 1966: 20-  
21, 31, 55-56, 60 & 33. • Dibner, *Heralds of Science*, 1955:  
no. 90. • *Freilich Sale Catalog*: no. 505. • Garboe, Axel.,  
“Nicolaus Steno (Niels Stensen) and Erasmus Bartholinus.  
Two 17th century Danish scientists and the foundation of  
exact geology and crystallography,” *Danmarks Geologiske  
Undersøgelse, IV. Række*, 3 (1954), no. 9, [1]-48 p., illus: 1-48.  
• Groth, *Entwicklungsgeschichte*, 1926: 241. • Horblit: no. 96  
[title page reproduced]. • Kobell, *Geschichte der Mineralogie*,  
1864: 16-18. • LKG: XVII 6. • Norman Catalog: 2, ??,  
2013. • Norman Sale Catalog: 1:809. • NUC: 567, 389-91  
[NS 0906773]. • PPM: *Printing and the Mind of Man*: no. 151.  
• Zittel, *History of Geology*, 1901: pp. 19, 25, 26, 132, 277

& 295-97. (Carangeot) DSB: 3, p. 61-2 [by A. Birembaut].

4523. Facsimile reprint, 1904: [Title taken from the front cover  
of the facsimile.] Facsimile-Edition. Ed. W. Junk. No. 5 |  
[rule] | N. Steno | De Solido Intra Solidum | Naturaliter  
Contento | [short rule] | Florentiæ 1669. | [ornate rule]  
| Exempl. No. . . . . | [ornament] | W. Junk | Berlin  
NW., Rathenower Stra. 22. | 1904.

4<sup>o</sup>:  $\pi^1$  A-K<sup>4</sup>; 41 $\ell$ .; [2], 1-78, [1] errata, [1] blank p.,  
one folding plate, title page of original reprinted in red and  
black, head and tail pieces. PAGE SIZE: 250 x 185 mm.

CONTENTS: [2 pgs], Title page, verso blank.; 1-76,  
Text.; 77-78, Printing permissions.; [1], Errata.; [1], Blank.;  
[At end], one folding plate, “Explicatio Figvrvrm.”— 360  
x 470 mm.

SCARCE. A facsimile reproduction of the original 1669  
edition, printed as number 5 of the Berlin bookseller W.  
Junk’s famous series of important scientific works. Only  
100 copies are implied to have been printed.

REFERENCES: NUC: 567, 389-91 [NS 0906776].

4524. 2nd edition, 1679: Nicolai Stenonis | De Solido |  
Intra Solidum | Naturaliter Contento | Dissertationis |  
Prodromus. | Ad | Serenissimvm | Ferdinan- | dum II.  
| Magnum Etruriæ | Ducem. | [ornament] | Lvgd. Batav.  
| Apud Jacobum Moukeke, 1679.

12<sup>o</sup>: 115, [1] p., two folding plate.

RARE. The text of the first edition has been reset in  
this issue.

REFERENCES: NUC: [no copy listed].

4525. 3rd edition, 1763: Viri Celeberrimi Nicolai Stenonis  
... Dani De Solido Intra Solidum Naturaliter Contento  
Dissertationis Prodromus. Ad Serenissimum Ferdinandum  
II Magnum Etruriæ Ducem Editio Secunda Etrusca.  
Pistorii A.S. MDCCLXIII. Ex Typographio Publici.  
Præsidibus Permittentibus. Prostant etiam Florentiæ  
apud Vicentium Landi Bibliopilam prope Monasterium  
Monachorum Cassinensium.

4<sup>o</sup>: 73 p., plate.

RARE. This edition was prepared by the Italian  
medical writer Anton Matani [1730-1779].

REFERENCES: *Berlinische Sammlungen*: 3, 325. • BL:  
[no copy listed]. • *Göttingische gelehrte Anzeigen*: 66, 544.  
• NUC: 567, 389-91 [NS 0906774]. • Roller & Goodman,  
*Catalogue*, 1976: 2, ??.

4526. 4th edition, 1842: E Dissertatione Nicolai Stenonis De  
Solido Intra Solidum Naturaliter Contento Excerpta In  
Quibus Doctrinas Geologicas Quae Hodie Sunt In Honore  
Facile Est Reperire; curante Leopoldo Pilla. Florentiæ: Ex  
Typographia Galilaiana, 1842.

4<sup>o</sup>: 28 p., with a reduced plate.

VERY SCARCE. Edited by Leopoldo Pilla [1805-1848].  
This is a very incomplete edition.

REFERENCES: NUC: 567, 389-91 [NS 0906775].

4527. 5th edition, 1910: Nicolai Stenonis | Opera |  
Philosophica. | Edited by Vilhelm Maar | At the  
Expense of the Carlsbergfond | Vol. I. [-II.] | [ornament] |  
Copenhagen | Vilhelm Tryde | MCMX.

2 vols. [vol 1] 4<sup>o</sup>: [4], I-XXXII, [1]-264 p. Title in  
red and black with woodcut device. [vol 2] 4<sup>o</sup>: [4], [1]-365,  
[1] p., 2 folding plates (one colored), numerous text illus.  
Title in red and black with woodcut device.

CONTENTS: [Vol 1] [2 pgs], Title page, verso ornament.;  
[1 pg], “Contents Of Volume I.”; [1 pg], Blank.; [I]-XXXII,  
“Life And Works.”; [1]-218, Text of Steno’s works.; [219],  
Sectional title page, “Notes.”; [220], Blank.; [221]-264, Text  
of notes.

[Vol 2] [2 pgs], Title page, verso ornament.; [1 pg],  
“Contents Of Volume II.”; [1 pg], Blank.; [1]-282, Text  
of Steno’s works.; [283]-310, “Appendix.”; [311]-359,  
“Notes.”; [360]-365, “Index Of Person Mentioned.”; [1 pg],  
“Corrections.”

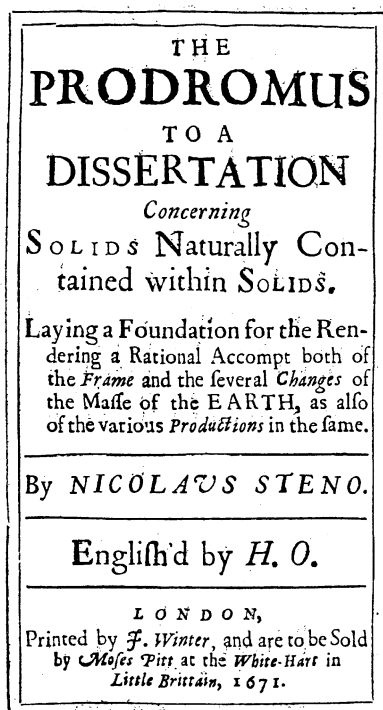
VERY SCARCE. A modern life and writings of Steno,  
edited by Vilhelm Maar [see note below] and containing a  
corrected text of the original edition of the *De Solido* which

is found in volume 2, pages 181-227. The present work also comprises all works of a scientific nature, which are known to have come from him. It embraces not only the scientific work which he published or left to others to publish, but also those titles which appeared without his knowledge such as various correspondence to Thomas Bartholin and Cosimo II and his lectures on the anatomy of the brain. The first volume begins with a lengthy biography of Steno after which his writings are presented in chronological order. This work was published in an edition of 350 copies.

Vilhelm Maar. (BORN: ; DIED: ) Danish writer.

BIOGRAPHY NEEDED

REFERENCES: NUC: 567, 389-91 [NS 0906796]. • Osler, *Bibliotheca Osleriana*, 1969: no. 4017. (Maar) *Dansk Biografisk Lexikon*.



PRODROMOUS, 1671

#### English editions

4528. 1671: [Contained within a double rule box:] The | Prodromous | To A | Dissertation | Concerning | Solids Naturally Con- | tained within Solids. | Laying a Foundation for the Ren- | dering a Rational Account both of | the Frame and the several Changes of | the Masse of the Earth, as also | of the various Productions in the same. | [rule] | By Nicolavs Steno. | [rule] | English'd by H.O. | [rule] | London, | Printed by J. Winter, and are to be Sold | by Moses Pitt at the White-Hart in | Little Brittain, 1671.

8°: A-H<sup>8</sup>; 64ℓ.; [16], 1-112 p., one folding plate, 220 x 282 mm., showing 25 figures. PAGE SIZE: 168 x 108 mm.

CONTENTS: [2 pgs], Title page, verso blank; [6 pgs], "The | Interpreter | To The | Reader.;" [6 pgs], "The | Heads | Of This | Treatise.;" [1 pg], "Errata.;" [1 pg], Publisher's list; 1-112, Text.; [At end], One folding plate.

RARE. Translation probably completed by Henry Oldenburg [see note below] of *De Solido Intra Solvm*

*Natraliter Contento Dissertationis Prodromvs* (1st ed., Florentiae, 1669). As valuable as Steno's contributions were to the development of the earth sciences, they likely would have gone unrecognized in England had the book not caught the attention of ROBERT BOYLE. He was most likely instrumental in persuading Oldenburg to prepare this translation of the *Prodromus*.

The translator in his notes "To The Reader" first explains the circumstances for producing this translation. He then "publicly attests" that the honorable Robert Boyle in a manuscript about gems and other precious stones has written that the reason for their transparency was they were once fluid. That opaque gems and other medical stones are derived from earths. Oldenburg's narrative then closes with his testament to others researching science: "... several judicious persons do employ themselves in the inquiry after the observables in the greater parts of the world ... for the discovery of the works of God and the operations of nature." This introduction is then followed by a detailed table of contents that acts as an index to the text. The translation of the text follows the structure of the original Latin edition.

Please note that while all early editions of Steno's *Prodromous* are rare, this 1671 English translation appears to be much rarer. Uncommonly, this translation is also found bound up at the end of Boyle's *Essay about the Origine and Virtues of Gems* (1st ed., London, 1672), implying that the publisher had a difficult time selling Steno's work by itself. This is further driven home by the fact that the title page of another Boyle work, *Essays of the Strange Subtlety, Determinate Nature, Great Efficacy of Effluvioms ... to which is added The Prodromus to a Dissertation concerning Solids Naturally contained within Solids* (London, 1673) specifically calls for the inclusion of the Steno translation within the book, but only a handful of copies of this combination are known to exist.

Henry Oldenburg. (BORN: Bremen, Gernay, c1618; DIED: Charlton, near Greenwich, England, 5 September 1677) *English scientist*. Oldenburg graduated from the University of Utrecht in 1641, and he matriculated at Oxford from 1657 to 1658. He taught in the Paedagogium of Bremen. Later he became a professor in the newly established University of Dorpat, in what is now Estonia. Although it is known that Oldenburg matriculated in the University of Utrecht in 1641, nothing is known with assurance about what he did during the following twelve years, but there is presumptive evidence that he was a tutor during these years. In 1656 he became tutor to Boyle's nephew, Richard Jones, later the third Viscount Ranelagh and first Earl of Ranelagh. Oldenburg made a profession of scientific administration. He founded a system of records in the Royal Society that is still followed, created an international correspondence of scientists, and founded the first scientific journal, *The Philosophical Transactions of the Royal Society of London*. Oldenburg began publishing in 1665 the *Philosophical Transactions*, which were his personal enterprise, to make money, although he never made as much as he hoped. He also translated papers for the *London Gazette*. He also translated and published works from abroad. He translated at least two of Boyle's works into Latin, and he appears to have functioned effectively as the publisher for a number of Boyle's works.

REFERENCES: NUC: 567, 389-91 [NS 0906801]. (Oldenburg) Allibone, *Dictionary of English Literature*, 1859-71. • BBA: I 831, 153-174. • *Biographie Universelle*. • DNB: 14, 988-90. • DSB: 10, 200-3 [by A. Rupert Hall]. • *Nouvelle Biographie Générale* (Hoefer). • Poggendorff: 2, cols. 321-2. • Waller, *Dictionary of Universal Biography*, 1857-63. • Watt, *Bibliotheca Britannica*, 1824. • WBI. • *World Who's Who in Science*: pp. 1279-80.

4529. 1916: The Prodromus | Of | Nicolaus Steno's Dissertation | Concerning A Solid Body Enclosed By | Process Of Nature Within A Solid | An English Version With An Introduction | And Explanatory Notes | By |

## STENO

John Garrett Winter | University Of Michigan | With A Foreword | By | William H. Hobbs | University Of Michigan | New York | The Macmillan Company | London: Macmillan And Company, Limited | 1916 | All rights reserved.

4<sup>o</sup>: [2], [i]-vii, [1], 169-283, [1], [6] publisher's list p., 7 plates (numbered V-XI). Printed wrappers. PAGE SIZE: 275 x 195 mm.

CONTENTS: [2 pgs], Blank, verso "The volumes of the University of Michigan | are published by ..."; [i], Series title page, "University of Michigan Studies | Humanistic Series | Volume XI | [rule] | Contributions To The History | Of Science | [rule] | Part II. Nicolaus Steno's Disserta- | Tion Concerning A Solid Body | Enclosed By Process Of Nature | Within A Solid."; [ii], "The Macmillan Company | ..."; [iii-iv], Title page, verso "Copyright, 1916, | By Francis W. Kelsey, Editor. | ..."; [v], "Preface."—signed John G. Winter, March 15, 1916.; [vi], Blank.; vii, "Contents."; [1 pg], Blank.; 169-174, "Forward."—signed Wm. Herbert Hobbs, February, 1916; 175-187, "Introduction | I. The Life Of Nicolaus Steno."; 188-193, "II. The Writings Of Steno."; 194-203, "III. Bibliography Of The Prodomus."; 204, Quotation from Zittel, *Geschichte der Geologie und Paläontologie*.; 205-276, Text.; 277-283, "Index."; [1 pg], Blank.; [6 pgs], Other titles in the series.

VERY SCARCE. Annotated translation by John Garrett Winter [see note below] of *De Solido Intra Soldvm Natraliter Contento Dissertationis Prodomvs* (1st ed., Florentiæ, 1669). This work was published as *The University of Michigan Studies. Humanistic Series. Contributions to the History of Science*, 11, part 2, and is today almost as difficult as the first English translation of 1671 to obtain.

The work begins with a forward by William Hobbs [see note below] describing the scientific age in which Steno wrote the *Prodromus*. The significant contributions made by this work to the sciences of crystallography, geology and palaeontology are recounted by Hobbs. The introduction written by Winter then gives an overview of Steno's life, a list of his other writings, and a bibliography of the editions and the translations of the *Prodromus*. The introduction closes with a list of selected references. The body of the translation is then persented. Winter has added explanatory notes to highlight historic or scientific aspects of the text. A general index closes the work.

Scattered through out the text are the plates. These break down as two showing Steno's portrait, one being a color facsimile of the title page of the original Latin edition, one depicting the "tastefully designed headpiece and initial letter," and the last three reproducing the figures of the original plate.

**Facsimile reprint, 1968:** Nicolaus Steno | (1631-1686) | The Prodomous Of Nicolas Steno's | Dissertation | Concerning A Solid Body Enclosed By | Process Of Nature Within A Solid | An English Version with an introduction and explanatory notes | by John Garrett Winter | With a foreword by | William H. Hobbs | (Facsimile of University of Michigan Humanistic Studies, Vol. XI, pt. 2, 1916) | Introduction by | George W. White | University of Illinois | [ornament] | Hafner Publishing Company, Inc. | New York and London | 1968. 8<sup>o</sup>: [6], [i]-vii, [1] blank, 169-283, [1] blank p., 6 plates (labelled V-XI).

[1 page], Blank.; [1 page], Series title page.; [2 pages], Title page, verso "Copyright ©1968, Series Title and Introduction | by | Hafner Publishing Company | ..."; [2 pages], "Editor's Introduction | by | George W. White."; [i], "University of Michigan Studies | Humanistic Series | Humanistic Series | Volume XI ..."; [ii], "Plate V.—Portrait of Steno in the Pitti Palace."; [iii], Original title page [1916].; [iv], Blank.; V, "Preface."—signed John G. Winter, 15 March 1916.; [vi], Blank.; vii, "Contents."; [1 page], Blank.; 169-174, "Forward."—signed Wm. Herbert Hobbs, February 1916.; 175-203, "Introduction."; 204, Quote about Steno from Zittel's *Geschichte*.; 205-

270, Text.; 271, Translated printing permissions.; 272-73, "Explanation of the Figures."; 274, Explanation of Plate X.; 275, Plate X.; 276, Explanation of Plate XI.; 277-83, "Index.;; [1 page], Blank.

Modern reprint of the English 1916 translation, with an editorial forward by geological historian George White [see note below]. Published as volume 4 of the series, *Contribution to the History of Geology*.

**George Willard White.** (BORN: North Lawrence, Ohio, U.S.A., 8 July 1903; DIED: Champaign, Illinois, U.S.A., February 1985) *American geologist & historian of geology*. White earned his bachelor's degree at Otterbein College, Westerville, Ohio, and his master's and doctor's degree from Ohio State University. Between 1926 and 1941, he rose from instructor to department head at the University of New Hampshire. From 1941 to 1947, he was a professor of geology at Ohio State University, where upon he went to the University of Illinois, becoming head of the geology department, retiring in 1965. He specialized in glacial and groundwater geology, as well as the history of geology. He is remembered fondly by his many students.

REFERENCES: NUC: 567, 389-91 [NS 0906800]. (White) ABA: II 668, 55. • *American Men of Science*. 5th ed., New York, 1933. • Carozzi, A.V., "Tribute to George W. White," *Earth Sciences History*, 2 (1983), no. 1, 1-3. • Sarjeant, *Geologists*, 1980: 3, 2415, Suppl. 1 (1987), 1, 887 & Suppl. 2 (1996), 2, 1196. • WBI.

### French edition

**4530. 1832:** Prodomus d'une dissertation sur le Solide contenu naturellement dans un autre solide; extrait et traduit par M. Elie de Beaumont. Paris, 1832.

8<sup>o</sup>:  
RARE. Translation by ELIÉ DE BEAUMONT of *De Solido Intra Soldvm Natraliter Contento* (1st ed., Florentiæ, 1669). It is an incomplete translation that first appeared in *Annals des Sciences Naturelles*. Paris: 25 (1832), 337-77, under the article title "Fragmens geologiques tires de Stenon, de Kazwini, de Strabon et du Boun-Dehesch."

Another earlier French translation that was never issued separately is contained in the *Collection Academique de Dijon, Partie Etrangere*: 4 (1757), 377-414, under the title, "Extrait de la Dissertation de Nicolas Stenon sur les corps solides qui se trouvent contenus naturellement dans d'autres corps solides."

REFERENCES: NUC: [no copy listed].

### Danish edition

**4531. 1902:** ... Foreløbig meddelelse til en afhandling Om faste legemer, der findes naturlig indlejrede i andre faste legemer. I oversættelse ved August Krogh og Vilhelm Maar. Med indledning og noter. København: Gyldendal, 1902.

4<sup>o</sup>: [6], xii, 106 p., frontispiece (portrait), plate. Title in red and black. PAGE SIZE: 260 x 205 mm.

SCARCE. Translation by August Krogh and Vilhelm Maar of *De Solido Intra Soldvm Natraliter Contento* (1st ed., Florentiæ, 1669). The edition of this translation was limited to 700 numbered copies.

REFERENCES: NUC: 567, 389-91 [NS 0906789].

### German edition

**4532. 1923:** Vorläufer Einer Disser- | tation Über Feste Körper, | die innerhalb anderer fester Körper | von Natur aus eingeschlossen sind | von | Nikolaus Steno | Florenz 1669 | [tapered rule] | Übersetzung von | Karl Mieleitner. | [rule] | Mit einer Tafeln. | [rule] | 1923 | Akademische Verlagsgesellschaft M.B.H. | Leipzig | Okl. 209.

8<sup>o</sup>: 68 p., one folding plate. PAGE SIZE: Book  
SCARCE. Translated by KARL MIELEITNER from *De Solido Intra Soldvm Natraliter Contento Dissertationis Prodomvs* (1st ed., Florentiæ, 1669). This book was published as number 209 of Ostwald's series *Klassikern der Exakt Wissenschaften*.

This translation was reprinted in 1988 as a two volume set with a new introduction: *De solido intra solidum naturaliter contento. Dissertationis Prodromus. Florenz 1669. Faksimiledruck nebst der deutschen Übersetzung Karl Mieleitners von 1923. Dabei: Eginhard Fabian, Versuch einer Annäherung.* Berlin Akademie 1988 (78; 173 p.).

REFERENCES: NUC: 567, 389-91 [NS 0906806].

### Italian edition

**4533. 1928:** Prodromo di una Dissertazione sue Corpi Solidi Naturalmente Inclusi in Altri Corpi Solidi. Tradotto dal Latino con Prefazione e Note a Cura di Giuseppe Montalenti. Aggiuntevi le lettere Originali in Italiano sulle grotte di Gresta e Moncoden. Roma: Casa Editrice Leonario da Vinci, 1928.

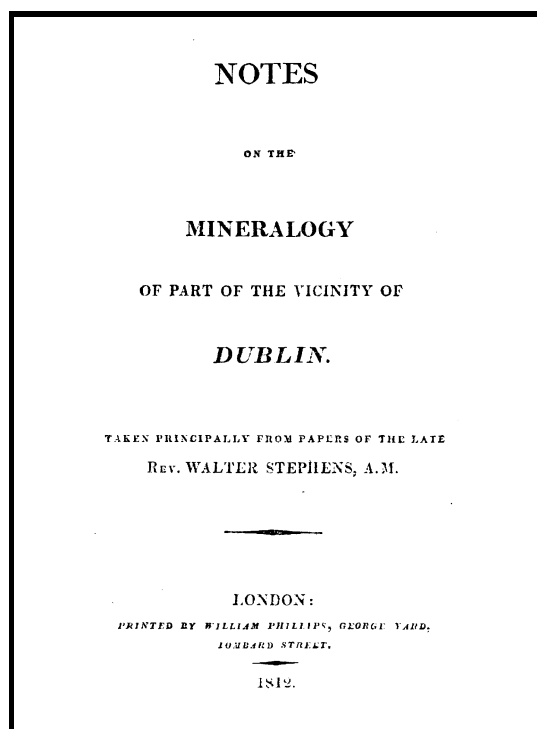
4°: 127 p.

VERY SCARCE. Translation by Giuseppe Montalenti [see note below] of *De Solido Intra Solidum Naturaliter Contento* (1st ed., Florentiae, 1669), with notes and commentary added by the translator. Published as *Universitas Scriptorum* nos. 16–17.

REFERENCES: NUC: 567, 389-91 [NS 0906798].

**STENSEN, Niels.**

See: Steno, Nicolaus.



NOTES ON THE MINERALOGY, 1812

**STEPHENS, Walter.**

**4534. — English, 1812.**

Notes | On The | Mineralogy | Of Part Of The Vicinity Of | Dublin. | Taken Principally From Papers Of The Late | Rev. Walter Stephens, A.M. | [tapered rule] | London: | Printed By William

Phillips, George Yard, | Lombard Street. | [tapered rule] | 1812.

8°:  $\pi^8$  B-C<sup>8</sup> D<sup>5</sup>; [1]-57, [1] p., 2 plates (folding), one map (folding; colored). PAGE SIZE: 226 x 140 mm.

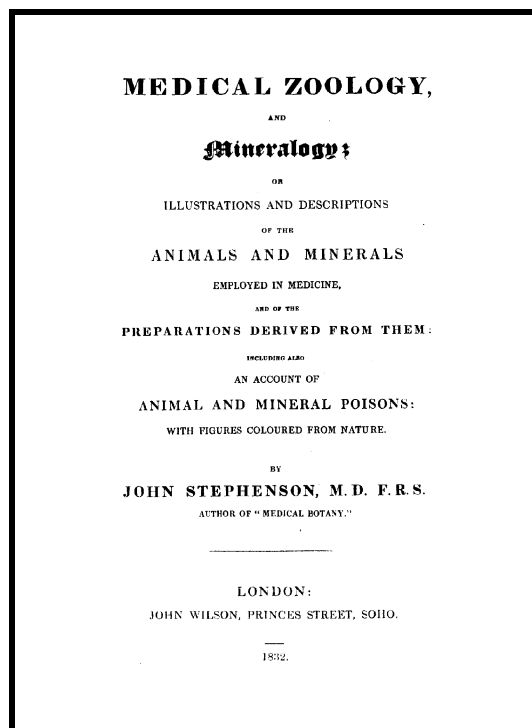
CONTENTS: [1-2], Title page, verso blank.; [3], Preface, signed William Fitton, September 1811.; [4], Blank.; [5]-57, Text.; [1 pg], Blank.

PLATES: The plates and map consist of: Page 16, plate (folding), showing granite veins at the shore at Killiney. Page 21, plate (folding panorama), "Sketch of the Hills to the South of Dublin Bay—from the Light House." At end, map (folding, hand colored), "Sketch of Part of the Mountainous Country near Dublin."

VERY SCARCE. William Fitton [see note below] arranged to have this volume published as a lasting tribute to the author. It contains observations that were to form the basis of a major topographical mineralogy, but due to Stephan's untimely death, the larger work providing a mineralogical survey of the mountainous district around Dublin never appeared. Fitton records in the preface that "The substance of the greater part of the following observations has already appeared, in the first volume of the Transactions of the Geological Society."

**William Fitton.** (BORN: 1780; DIED: 1861) *Irish geologist.*

REFERENCES: LKG: XIV 453\*. (Fitton) DNB. • *Encyclopaedia Britannica*, 11th edition. • Sarjeant, *Geologists*, 1980.



MEDICAL ZOOLOGY, AND MINERALOGY, 1832

**STEPHENSON, John.** (BORN: 1790; DIED: 1864) *English physician.*



## STIEGLITZ

**4535. — English, 1832** [First edition].

Medical Zoology, | And | Mineralogy: | Or | Illustrations And Descriptions | Of The | Animals And Minerals | Employed In Medicine, | And Of The | Preparations Derived From Them: | Including Also | An Account Of | Animal And Mineral Poisons: | With Figures Coloured From Nature. | By John Stephenson, M.D. F.R.S. | Author Of "Medical Botany." | [rule] | London: | John Wilson, Princes Street, Soho. | [rule] | 1832.

8°:  $\pi^3$  B-2E<sup>8</sup>  $\chi^1$ ; 178ℓ.; [i]-vi, [1]-350 p., 45 plates (44 hand-colored). PAGE SIZE: 238 x 140 mm.

CONTENTS: [i-ii], Half title page, "Medical Zoology, | And | Mineralogy," verso blank.; [iii-iv], Title page, verso blank.; [v]-vi, "Preface."; [1]-345, Text.; [346], Blank.; [347]-350, "Index."

PLATES: The plates are identical in both the first and second editions. Only a few are signed C. Spratt del, printed G.E. Madeley, Nov. 1, 1831. The subjects covered on the first 30 plates include venomous animals, fish, insects, snakes, scorpions, fish, squids, centipeds, spiders, etc. Plates 31 to 45 render mineralogical subjects including gold, silver, bismuth, copper, chalcopryite, malachite, azurite, sphalerite, smithsonite, galena, minium, cerussite, pyromorphite, pyrite, magnetite, pharmacosiderite, mercury, cinnabar, sulphur, amber, barite, calcite, etc.

SCARCE. A relatively unknown colored mineralogy with somewhat crude though recognizable mineral depictions of many species. The text describes and illustrates various animals and minerals recognized in the medical science of the nineteenth century. Included are descriptions of many venomous creatures and minerals from which medical preparations were derived. It was written as a companion to the author's previous work describing medical botany. The illustrations that accompany the text appear to be original and not copied from some other work.

**4536. 2nd edition, 1838:** Medical Zoology, | And | Mineralogy; | Or | Illustrations And Descriptions | Of The | Animals And Minerals Employed In Medicine, | And Of The | Preparations Derived From Them: | Including Also | An Account of Animal and Mineral Poisons: | With Figures Coloured From Nature. | By | John Stephenson, M.D. F.L.S. | [ornament] | London: | John Churchill, Princes Street, Soho. | MDCCCXXXVIII.

8°:  $\pi^3$  B-2E<sup>8</sup>  $\chi^1$ ; 178ℓ.; [i]-vi, [1]-350 p., frontispiece (hand-colored), 45 plates (44 hand-colored). PAGE SIZE: 238 x 140 mm. SCARCE.

CONTENTS: [i-ii], Half title page, "Medical Zoology, | And | Mineralogy," verso blank.; [Frontispiece.]; [iii-iv], Title page, verso blank.; [v]-vi, "Preface."; [1]-345, Text.; [346], Blank.; [347]-350, "Index."

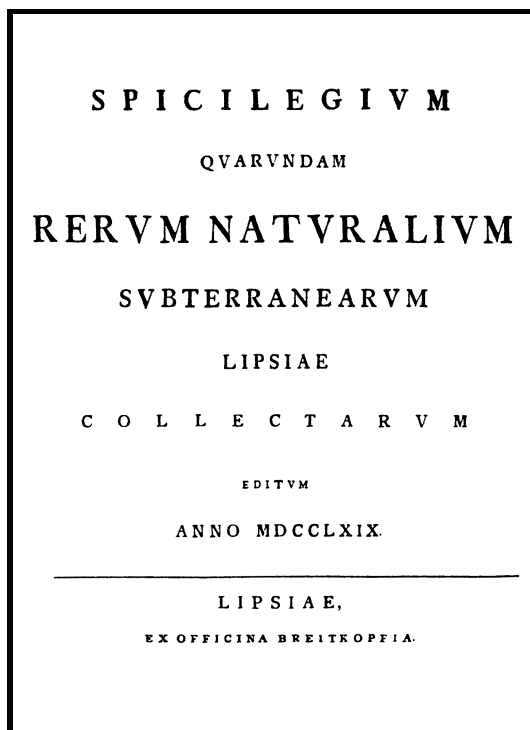
PLATES: Identical to the first edition except for the newly issued frontispiece absent from that edition.

**STIEGLITZ, Christianus Ludovicus.** (BORN: Leipzig, Germany, 16 February 1724; DIED: Leipzig, Germany, 4 May 1772) *German lawyer & mineral collector.*

Stieglitz was educated at the University of Leipzig, obtaining an advanced degree in jurisprudence. He held several high positions in the city government of Leipzig. In 1754 he married Christiane Richter, daughter of Johann Christoph Richter, the founder of the "Museum Richterianum" in Leipzig, described and illustrated by Hebenstreit in 1754. In 1765 Christian and his two

younger brothers were appointed "Nobles of the Empire" in Bohemia. They had a son of the same name [1756-1836], who became a prominent art historian and architectural archeologist.

REFERENCES: Wilson, *History of Mineral Collecting*, 1994: 96-8.



SPICILEGIUM QVARVNDAM RERV NATVRALIVM, 1769

**4537. — German & Latin, 1769.**

Spicilegium | Qvarvndam | Rerv Natvralivm | Svbtterranearvm | Lipsiae | Collectarvm | Editvm | Anno MDCCLXIX | [rule] | Lipsiae, | Ex Officina Breitkopfia.

4°: [A]-C<sup>4</sup>; 12ℓ.; [1]-24 p., 21 engraved, hand-colored plates. PAGE SIZE: 277 x 250 mm.

CONTENTS: [1-2], Title page, verso blank.; [3], Dedication to the "Principi Electori Saxoniae Friderico Avgvsto," signed "Christianus Ludovicus Stieglitz."; [4], Blank.; [5]-[6], "Lectoribvs Salvtem" [Begins with a colored headpiece showing dendrites on sandstone.]; [7]-16, "Descriptiones Figvrarvm" [=Latin descriptions of figures on the plates.]; 17-24, "Erklärung der Kupfer-Tafeln" [=German descriptions of figures on the plates.]; [At end], 21 plates.

PLATES: The 21 engraved, hand-colored plates are all unsigned. Each is numbered in Roman numeral preceded by the word "Tab." Of the 65 specimens illustrated, each is labeled so that it may be matched to the text description.

EXTREMELY RARE. Although published anonymously, the introduction is signed by Stieglitz, who is likely to be the author of the text. It is the great beauty of the hand-colored plates that strike the reader, however. Each shows one or more examples of 65 mineral specimens selected for illustration from the author's

large collection in realistic renderings. Particularly notable among the minerals pictured are wire silvers and calcites from the mines of Saxony, as well as the first illustration of native iron from Disco Island, Greenland. Freisleben (1828) records that the engravings and coloring were prepared by a miniaturist painter by the name of Morino. The text is occupied with descriptions of the specific specimens, which is written in both German and Latin. Unfortunately, this work is among the rarest of all hand-colored mineralogies, with only a very few copies known.

Stieglitz's collection must have been one of the better known during the eighteenth century. Cronstedt makes note of it, and Werner records in his article on collections, "Von den verschiednerley Mineraliensammlungen, aus denen ein vollständiges Mineralienkabinett bestehen soll" [See: *Sammlungen zur Physik und Naturgeschichte*: 1 (1778), 387–420], that "In the Stieglitz collection ... the Fossils were placed ... according to their respective countries, which were not however disposed in the best geographical Order ... It contained no specimens of the different Rocks; and the Fossils of each land, province or mining district, were arranged methodically ... according to the Earth's, Stones, Metals, &c." (Hailstone, 1792). Unfortunately, the only record of its contents exist in this splendid hand-colored mineralogy and the collection catalog listed below.

**Facsimile reprint, 1992:** Specimens | Of Some | Natural Things | From Underground | In A Leipzig | Collection | Edition Of | 1769 | [rule] | Leipzig, | From The Breitkopf Workshop. | [rule] | New Edition | 1992 | The Mineralogical Record | Tucson | (edition limited to 50 copies). 4°: [1]–24 p., 21 color plates.

[1–2], Title page in Latin, verso blank.; [3–4], Title page in English, verso blank.; [5], Dedication in Latin.; [6], Blank.; [7], Dedication in English.; [8], Blank.; 9–13, "Preface | To The | New Edition."; [14], Blank.; [15–16], "Lectoribus | Salvtem."; [17], "To The Readers: | Greetings."; [18], Blank.; [19]–36, Facsimile of original text.; [37]–46, English translation of text.; [At end], 21 plate reproductions.

Facsimile reprint with added material. Published as a volume in the *Mineralogical Record* series of antiquarian reprints, this edition adds an English translation of the dedication and a new preface with historical information about this work. In addition, the text of the plate descriptions has been translated into English.

REFERENCES: Freisleben, *Sächsische Mineralien-Verzeichnisse*, 1828: no. 23. • Hailstone, J., *A Plan of a Course of Lectures on Mineralogy*. Cambridge, 1792: 39–40. • LKG: VI 44 & XIV 198. • Wilson, *History of Mineral Collecting*, 1994: 46, 96–98 & 225.

#### 4538. — German, 1772 [Collection catalog].

Vollständiger Catalogus | einer | Suiten | Mineralien=Sammlung, | welche | aus 4263 Numern | besteht; | aus | allen Ländern Europens und den übrigen Welttheilen mit größter Sorgfalt | gesammelt. | [ornament] | [ornate rule] | Leipzig 1772.

8°: 301 p.

EXTREMELY RARE. Published anonymously but likely prepared by Stieglitz. Sale catalog of the



VOLLSTÄNDIGER CATALOGUS, 1772

author's fine mineral collection, which Werner records was sold to the Theresian College in Vienna (Hailstone, 1792). One could speculate that the author's colored mineralogy *Spicilegium Qvarvndam Rerum Natvralivm Svbtterraneorum Lipsiae Collectarvm* (Leipzig, 1769) was perhaps a prospectus for selling the collection to a Saxon Noble. However, when this failed to produce a buyer, the full collection catalog was published as the present title.

REFERENCES: BL: [972.e.14.(1.)]. • Freisleben, *Sächsische Mineralien-Verzeichnisse*, 1828: no. 27. • Hailstone, J., *A Plan of a Course of Lectures on Mineralogy*. Cambridge, 1792: 39–40. • Wilson, *History of Mineral Collecting*, 1994: 225.

**STORY-MASKELYNE, Neville.** (BORN: Wroughton, England, 3 September 1823; DIED: Wroughton, England, 20 May 1911) *English mineralogist & crystallographer*.

Story-Maskelyne graduated from Oxford in 1845, receiving his M.A. in 1849. In 1851, he became a teacher in mineralogy and chemistry at the University of Oxford. Then he was appointed professor of mineralogy in 1856. Story-Maskelyne became keeper of minerals at the British Museum in 1857, a post he kept until 1880. During his tenure, the collections were rearranged and considerably upgraded, with a catalogue published. From 1880–92, he was a member of parliament. In 1870, he was elected a Fellow of the Royal Society. In 1893, he was the recipient of the Society's Wollaston Medal. His primary research was on meteorites and diamonds.

REFERENCES: Barr, *Index to Biographical Fragments*, 1973: 252. • BBA: I 749, 22–24; II 1786, 273–274. • *Bulletin of the British Museum (Natural History)*, *Historical Series*: 6 (1978), no. 3, 67–9 & 10 (1982), no. 2, 45–74.



STORY-MASKELYNE

• Cleavelly, *World Palaeontological Collections*, 1983: 198 [see for further sources]. • DNB: Suppl. 1901-11, 433-5. • *Geological Magazine*: **48** (1910), no. 6, 286-7. • *Mineralogical Magazine*: **16** (1911), no. 74, 149-56, portrait [by L.J. Spencer]. • *Nature*: **86** (1911), 452-3. • Poggendorff: **3**, 880, 4, 970 & **5**, 815. • *Proceedings of the Geological Society, London*: 1912, p. lxi-lxii. • *Proceedings of the Royal Society of London*: Series A, **86** (1912), xlvii-lv. • Sarjeant, *Geologists*, 1980: **3**, 2202-3. • *Science*: **33** (1911), 889. • Smith, *Seventy Years of Mineralogy*, 1982. • *Times*: 22 May 1911. • WBI. • *World Who's Who in Science*: 1619.

**4539. — English, 1866** [Collection Catalog].

Index to the collection of minerals, with references to the table cases in which the species to which they belong are exhibited in the British Museum. London, Printed by Woodfall and Kinder, 1866.

[2], 16 p. Signed: Nevil Story-Maskelyne.

RARE. Mineralogy—Catalogs and collections.

**4540. — English, 1895.**

Crystallography | A Treatise On The | Morphology Of Crystals | By | N. Story-Maskelyne, M.A., F.R.S. | Professor Of Mineralogy, Oxford | Honorary Fellow Of Wadham College | Oxford | At The Clarendon Press | 1895.

8°: [i]-xii, [1]-521, [1], [1]-8 p., 398 text illus. (mostly crystal drawings), 8 plates. PAGE SIZE: 192 x 128 mm.

CONTENTS: [i-ii], Half title page, "Crystallography | Story-Maskelyne," verso printer's information.; [iii-iv], Title page, verso "Oxford | Printed At The Clarendon Press | ..."; [v]-viii, "Preface."; [ix]-xii, "Contents."; [1]-501, Text.; [502]-512, "Description of the Plates."; [8 plates].; [513]-521, "Index."; [1 pg], "Oxford | Printed At The Clarendon Press | ..."; [1]-8, Publisher's list.

VERY SCARCE. *Crystallography* is a complete and full treatment of its subject. Story-Maskelyne had labored on the manuscript for many years and contemporary reviews received the work well. "The volume is limited to the Morphology of Crystals, discussing in detail the relations between the planes of a system, the properties of zones, the kinds of

symmetry, the six crystalline systems and the whole is developed with admirable clearness and system, and will be studied carefully by all interested in this branch of science." [AJS Review].

Contents: I. On the General Properties of Crystals (p. 1-14). II. Mode of Expressing and Representing the Relations between the Planes of a System (p. 15-43). III. On Zones and their Properties (p. 44-79). IV. Theorems relating to the Axes and Parameters of a Crystalloid System (p. 80-96). V. On the Varieties of Symmetry possible in a Crystalloid System of Planes (p. 97-155). VI. Crystal as Crystalloid Polyhedra (p. 156-187). VII. The Systems (p. 188-387). VIII. The Measurement and Calculation of the Angles of Crystals (p. 388-473). IX. The Representation of Crystals (p. 474-501).

REFERENCES: *American Journal of Science*: 3rd Series, **50** (1895), 507 [probably by E.S. Dana]. • Dana's 7th (Bibliography): p. 81. • NUC. • NYPL Catalog. • USGS Library Catalog.

**STRINGER, Moses.** *English physician.*

Author of a few books devoted to mining law.

REFERENCES: BBA: I 1049, 368. • Watt, *Bibliotheca Britannica*, 1824. • WBI.

**4541. — English, 1699.**

English and Welsh mines and minerals discovered: in some proposals to the honourable House of Commons ; for employing the poor, to gain the hidden treasures of this kingdom, (which are here proved to be above 30 different species of metals and minerals,) so as to encrease the royal revenue a million a year, the wealth of the nation many millions; and give opportunity to establish as strong forces at land without charge as the nation may require; strengthen the fleet, and occasionally suppress vice : some remarks for importing a certain number of Irish lean cattel and corn; and taking off some grievous oppressions, by a court of conscience and this mineral manufacture humbly submitted by M.S. London: Printed for D. Brown, 1699.

4°: 28 p.

VERY SCARCE. Signed and dated: M. Stringer, Jan. 4, 1698/9.

REFERENCES: BL: [726.e.1.(1.)]. • *Kress Catalogue*: no. 3576. • LKG: XIV 409. • Wing: S-5975.

**4542. — English, 1713.**

Opera Mineralia Explicata: | Or The | Mineral Kingdom, | Within the Dominions of | Great Britain, | Display'd. | Being a Compleat History of the Antient | Corporations of the City of London, of | and for the Mines, the Mineral, and the Battery Works. | With all the Original Grants, Leases, In= | struments, Writs of Privilege and Pro= | tection, by Sea and Land, from Arrest (except | in the Mineral Courts); or being | Prest, or Serving Juries and Parish-Offices: | as also the Records of the said Mineral | Courts, from the Conquest, down to this | present Year, 1713. | Likewise Proposals

for New Settlements and Plentiful Provision for All the Indusruious Poor, be | their Number ever so Great. | [rule] | By M.S. M.D. | [rule] | London: | Printed for Jonas Brown, at the Black-Swan with | out Temple-Bar.

8°:  $\pi^4$  B-X<sup>8</sup> ★8; 169ℓ.; [8], i-xii, 7-308, [16] p., coat of arms (p. 26). PAGE SIZE: 172 x 106 mm.

CONTENTS: [2 pgs], Title page, verso blank.; [3 pgs], Dedication.—signed M.S. (i.e., Moses Stringer).; [3 pgs], “The | Contents.”; i-xii, “Introduction.”; 7-307, Text.; 308, “Books lately printed for James Brown, ...”; [16 pgs], “Books Printed, for and Sold by | Willam Taylor ...”

VERY SCARCE. Of only incidental mineralogical interest, this is perhaps the earliest English work devoted to legal matters as they pertain to mineral resources with in the area of Great Britain and Ireland. It provides an historical development from ancient times to the early eighteenth century, and recounts important court rulings as to ownership of mineral claims and recitation of various suits brought before the civil courts.

REFERENCES: Hoover Collection: no. 768. • Kress Catalogue: no. 4990.

#### STROHMEYER, Friedrich.

See: Stromeyer, Friedrich.

**STROMEYER, Friedrich.** (BORN: Göttingen, Germany, 2 August 1776; DIED: Göttingen, Germany, 18 August 1835) *German chemist & mineralogist.*

Stromeyer first studied botany and pharmacy at the University of Göttingen, before conducting post graduate work under Lewis Nicolaus Vauquelin [1763-1829] at Paris. He received a Ph.D. from Göttingen in 1800. From 1802 to '05 he worked as a privatdocent, and in 1805 he succeeded J.F. GMELIN at the University of Göttingen. Stromeyer was ordinary professor of chemistry and pharmacy from 1810 to 1835, during which period he set up the first teaching laboratory at a German university.

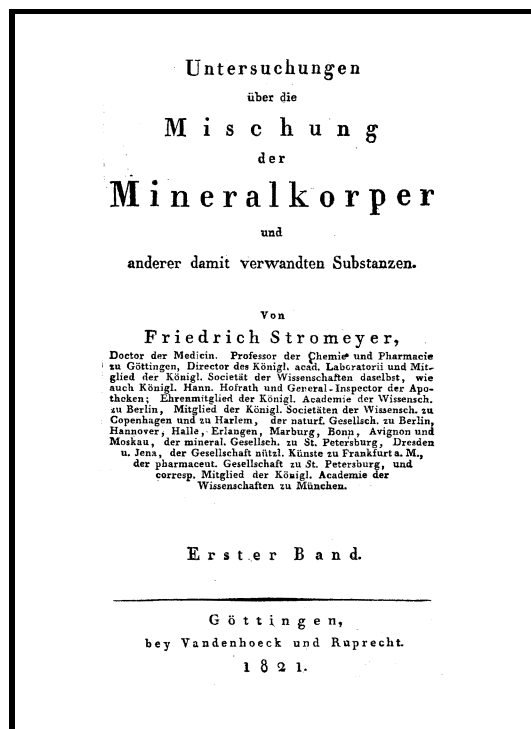
REFERENCES: DBA: I 1241, 362-386; II 1281, 227-231. • Drugulin, *Sechstausend Portraits*, 1863: no. 5319-20. • Hamberger & Meusel, *Gelehrte Teutschland*, 1796-1834. • Hirsch, *Biographisches Lexikon*, 1884-8: 5, 458-9. • Ihde, *Development of Modern Chemistry*, 1964: 261. • ISIS, 1913-65: 2, 512. • Lockemann, G. and R.E. Oesper, “Friedrich Stromeyer and the history of chemical laboratory instruction,” *Journal of Chemical Education*, 30 (1953), 202-4. • Partington, *History of Chemistry*, 1961-70: 3, 659. • Poggendorff: 2, cols. 1031-2 & 7a, 669. • Schaedler, *Biographisch Handwörterbuch*, 1891: 130. • Wagenitz, *Göttinger Biologen*, 1988: 175-6. • WBI. • *World Who's Who in Science*: 1624.

#### 4543. — German, 1821.

Untersuchngen | über die | Mischung | der | Mineralkörper | und | anderer damit verwandten Substanzen. | Von | Friedrich Stromeyer, | [...13 lines of titles and memberships...] | Erster [- Zweiter] Band. | [tapered rule] | Göttingen, | bey Vandenhoeck und Ruprecht. | 1821.

[SECTIONAL TITLE PAGE:]

Untersuchungen | über die | Mischung der Mineralkörper | und | anderer damit verwandten Substanzen.



UNTERSUCHNGEN ÜBER DIE MISCHUNG, 1821

8°:  $\pi^8$  1-28<sup>8</sup> 294; 236ℓ.; [i]-iv (i.e., xiv), [2], [1]-453, 456-458 (i.e., 456) p. Page xiv is misnumbered iv and pages 454-456 are misnumbered 456-458. PAGE SIZE: 220 x 135 mm.

CONTENTS: [i-ii], Title page, verso blank.; [iii]-viii, “Vorbericht.”; [ix]-iv (i.e., xiv), “Inhalt.”; [1 pg], Sectional title page.; [1 pg], Blank.; [1]-453, 456-458 (i.e., 456), Text.

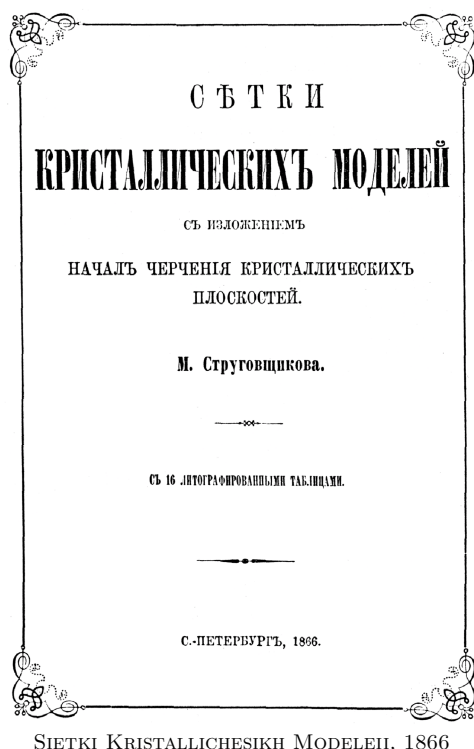
VERY SCARCE. First and only volume published of a proposed series on the chemical makeup of minerals. In the forward, Stromeyer writes that the influence of Berzelius’ researches has helped motivate him to prepare this book. It is a collection of investigations into the composition of minerals. Thirty species are treated including aragonite, aluminite, magnesite, strontianite, boracite, apophyllite and spodumene. In several cases Stromeyer presents analyses from multiple localities to show that the composition of a mineral species does not vary much deposit to deposit. Thomson (1831-2) called the analyses “models of analytical sagacity and accuracy.”

REFERENCES: Bolton, *Bibliography of Chemistry*, 1893: 857. • Cole, *Chemical Literature*, 1988: 518, no. 1251. • Dana’s 7th (Bibliography): 81. • NUC: [NS 1009346]. • Thomson, *History of Chemistry*, 1830-1: 2, 217-21.

#### STRUGOVISHCHIKOVA, M.

#### 4544. — Russian, 1866.

[Contained within an ornamental border:] Сѣтки | Кристалличесихъ Моделей | Съ Изложениемъ | Началь Черченія Кристаллическихъ | Илю- | скостей. | М. Струговщикова. | [ornate rule]



Съ 16 Литографированнымъ Таб. Иицами. |  
[ornate rule] | С. Петербург, 1866.

[TRANSLITERATED TITLE:]

Sietki | Kristallichesikh Modelei | S Izlozhehiem  
| Nachal Chercheniia Kristallichesikh | Ploskosti.  
| M. Strugovshchikova. | [ornate rule] | S 16  
Litografirovanpymn Tab. Iitsami. | [ornate rule] |  
S. Peterburg, 1866.

8°: [2] p., 16 plates (124 cut and paste crystal drawings).

EXTREMELY RARE. One of those unusual publications containing crystal diagrams on the 16 plates that were meant to be cut apart, folded and pasted to create 124 3-dimensional crystal models to aid in the study of crystallography. No other copy of this book has been traced.

REFERENCES: BL: [no copy listed]. • NUC: [no copy listed]. • Personal communication: [Petr Szacho, October 2005].

#### STRUVE, Heinrich Christoph Gottfried von.

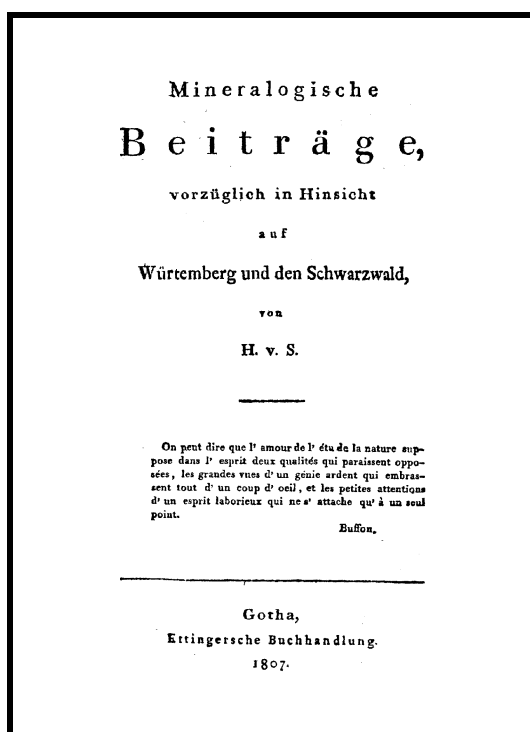
REFERENCES: *Biographie Universelle*: 40, 342. • DBA: I 1243, 189; 1243, 192-198; II 1282, 243. • Hamberger & Meusel, *Gelehrte Teutschland*, 1796-1834. • *Neuer Nekrolog der Deutschen*. • Poggendorff: 2, cols. 1035-6. • WBI.

#### 4545. — Latin, 1789.

Nouvelle Theorie des sources sales et du roc sale appliquee aux salines du Canton de Berne et suivie d'une excursion aux salines d'Aigle. Lausanne, 1788. German translation by J.S. Wytttenbach.



HEINRICH STRUVE



MINERALOGISCHE BEITRÄGE, 1807

Bern, 1789.

8°: VERY SCARCE.

REFERENCES: LKG: XIV 499.

#### 4546. — German, 1807.

Mineralogische | Beiträge, | vorzüglich in Hinsicht  
| auf | Württemberg und den Schwarzwald, | von |  
H.v.S. | [rule] | [...6 lines of quotation, signed Buffon...]  
| [rule] | Gotha, | Ettingersche Buchhandlung. |  
1807.

8°:  $\pi^3$  A-M<sup>8</sup> N<sup>5</sup>; 105 $\ell$ .; [i]-v, [1], [1]-202, [2] p.  
PAGE SIZE: 200 x 120 mm.

CONTENTS: [i-ii], Title page, verso blank.; [iii]-v,  
"Vorrede."—dated 6 August 1807.; [1 page], "Inhalt."; [1],

Sectional title page, "Mineralogischer | Ueberblick | der | Gegend | um | Stuttgart."; [2], Blank.; 3–42, Text.; [43], Sectional title page, "Mineralogische | Bemerkungen | auf | einer Reise | von | Stuttgart über Tübingen nach Sulz, | Alpirsbach und Wittichen im | Schwarzwalde gesammelt."; [44], Blank.; 45–98, Text.; [99], Sectional title page, "Ueber | den | Sulzer Anhydrit | und | seine | Verwandtschaft | zum | Muriacit."; [100], Blank.; 101–126, Text.; [127], "Übersicht | einiger | Mineralien – Cabinette | in | Stuttgart."; [128], Blank.; 129–202, Text.; [2 pages], "Verbesserungen und Zusätze | zu den | Mineralogische Beiträgen | von H. v. S."

VERY SCARCE. Concerned with the geology and mineralogy of the Black Forest, the mountain range which is largely composed of gneiss, granite and red sandstone. There are also accounts of the mineralogy of the area surrounding Stuttgart and of that city's mineral cabinet.

REFERENCES: *Freilich Sale Catalog*: no. 513. • LKG: XIV 319. • Ward & Carozzi, *Geology Emerging*, 1984: no. 2125.

#### 4547. — German, 1822.

Beiträge zur mineralogie und geologie des Nördlichen Amerika's. Nach amerikanischen Zeitschriften bearbeitet von Heinrich von Struve ... Hamburg, Bei Perthes & Besser, 1822.

8°: [6], 124 p., title vignette.

RARE. The state of mineralogy in the free states of America is so little known that this treatise was deemed necessary for the friends of nature. In its preparation, the American journals of Benjamin Silliman, the *Journal of the Academy of Natural Sciences in Philadelphia* and Cleaveland's *Treatise on Mineralogy and Geology* have been consulted. The first 22 pages contain a listing of minerals found in North America by Struve. The remainder of the volume are devoted to extracts of articles by Schoolcraft, Jessup, Dickson, Troost, among others.

REFERENCES: BMC: 5, 2038. • *Freilich Sale Catalog*: no. 514. • LKG: XIV 319. • NUC: 574, 150 [NS 1016182]. • Ward & Carozzi, *Geology Emerging*, 1984: no. 2126.

#### STRUVE, Henri.

REFERENCES: ABF: I 969, 403–406. • *Biographie Universelle*: 40, 341–42. • Feller, *Biographie Universelle*, 1851. • Poggendorff: 2, cols. 1033–4. • WBI.

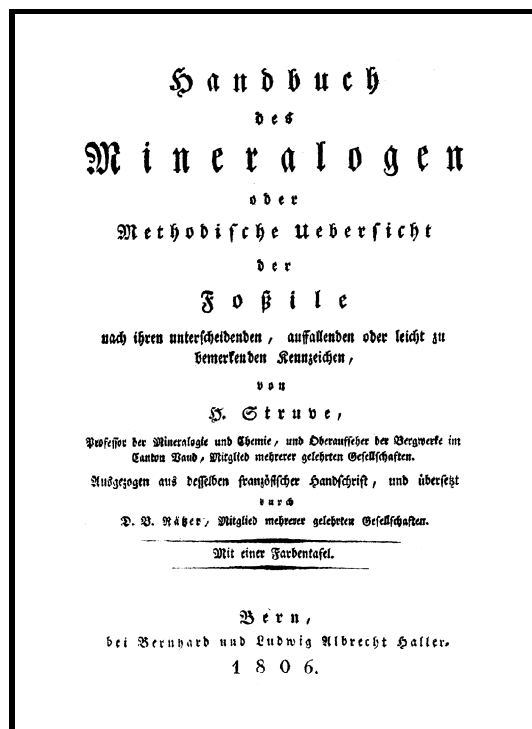
Principes de Minéralogie ou Exposition Succincte des Caractères Extérieurs des Fossiles, d'après les leçons du Professeur Werner, ... Par J.-P. Vanberchem-Berthout ... et Henri Struve ... (Paris, 1795).

See: Vanberchem-berthout, Johann Paul.

#### 4548. — French, 1797 [First edition, issue A].

Méthode | Analytique | Des Fossiles, | Fondée | Sur Leurs Caractères Extérieurs. | Par H. Struve Professeur de Chymie & Démonstrateur | [...4 lines of titles and memberships...] | [rule] | Prix L. 5 f. avec les planches coloriées & L. 3 15 f. sans planches | [rule] | [tapered rule] | A Lausanne, | Aux dépens de l'Auteur, & se vend chez Lacome | & Copagnie, Libraires au Café Littéraire. | [tapered rule] | 1797.

4°: [a]<sup>4</sup> b<sup>3</sup> A-V<sup>4</sup> X<sup>3</sup>: 90ℓ.; [i]–xii, [2], 1–166 p., 2 plates (hand colored). PAGE SIZE: 18 x 138 mm. uncut.



HANDBUCH DES MINERALOGEN, 1806

CONTENTS: [i–ii], Title page, verso "N.B. L'Auteur avise que tous les exemplaires de | l'Edition originale de son Ouvrage, ainsi que ceux | de la traduction allemande qu'il en prépare, porteront sa signature."; iii–v, "Avertissement."; vi–xii, "Notions Préliminaires."; [1 pg], "Principes | Élémentaires | De | Mineralogie. | D'Après Le Professeur Werner."; [1 pg], Blank.; 1–32, Text.; [33], "Méthode | Analytique | Des Fossiles."; [34], Blank.; 35–147, Text.; 148–163, "Table | Des Matières."; 164–166, "Errata."; [At end], 2 plates (hand-colored), showing color gradations.

VERY SCARCE. This mineralogical work outlines a new method of classifying minerals by their external characteristics. The system is based upon that of Werner but is modified in accordance with the principles used by Jean Baptiste Pierre Lamarck for the botanical classification in his *Flore Francoise* (Paris, 1794). We learn from the title–page of this issue that the book was issued with and with out the two handcolored plates illustrating 80 color gradations.

REFERENCES: Hoover Collection: no. 769. • LKG: XII 148.

4549. First edition, issue B, 1798: Méthode | Analytique | Des Fossiles | Fondée | Sur Leurs Caractères Extérieurs | Par H. Struve, | [...4 lines of titles and memberships...] | [rule] | Prix L. 5.10 f. avec les planches coloriées, & L. 3.15 f. sans planches. | [rule] | [tapered rule] | A Paris, | Chez C. Pougens, Imprimeur-Libraire, rue | St. Thomas du Louvre, N° 246. | Et A Lausanne, | Chez Durand l'ainé & Compagnie, Libraires. | [double rule] | 1798.

4°: xii, 166 p., 2 plates (hand-colored). Pages 124 misnumbered 224, 130 as 30, 156 as 56. Errata, pages 164–166.

VERY SCARCE. Text consists of the same sheets of the first issue, but a new title page with a different publisher

# STUCKE

and a new year have been incorporated.

REFERENCES: NUC: 574, 150-1 [NS 1016193].

**4550. 2nd edition, issue A, 1797/98:** Méthode | Analytique | Des Fossiles, | Fondée | Sur Leurs Caractères Extérieurs, | Par H. Struve, Professeur de Chemie, et | [...6 lines of titles and memberships...] | [tapered rule] | A Paris, | De l'Imprimerie des Sciences et Arts, rue Thérèse, | près la rue Helvétius, N°. 538. | [tapered rule] | An VI.

8°: a<sup>8</sup> B-L<sup>8</sup> M<sup>6</sup>; 94ℓ.; [i]-xij, [2], [1]-174 p., 2 plates (hand-colored). PAGE SIZE: 210 x 135 mm. VERY SCARCE.

CONTENTS: [i-ii], Title page, verso blank.; iii-v, "Avertissement."; vi-xiii, "Notions Préliminaires."; [1 pg], "Principes Élémentaires de Minéralogie, d'Après le Professeur Werner."; [1 pg], Blank.; 1-34, "Principes Élémentaires de Mineralogie."; [35], "Méthode Analytique des Fossiles."; [36], Blank.; 37-157, Text.; 158-174, "Table des Matières."

**4551. 2nd edition, issue B, 1798:** Méthode | analytique | Des Fossiles, | Fondée | Sur Leurs Caractères Extérieurs; | Par H. Struve, Professeur la Chemie, et | [...6 lines of titles and memberships...] | [tapered rule] | A Paris, | Chez Henry Ta Rdieu. [?] | [rule] | L'An VII.

8°: [2], [i]-xii, [2], 1-174 p., 2 plates (hand-colored). VERY SCARCE.

CONTENTS: [2 pgs], Half title page, "Méthode | Analytique | Des Fossiles," verso blank.; [i-ii], Title page, verso blank.; iii-v, "Avertissement."; vi-xii, "Notions Préliminaires."; [1 pg], "Principes | Élémentaires | de | Minéralogie, | d'Après les Professeur Werner."; [1 pg], Blank.; 1-32, Text.; 33-34, "Note | des instrumens indispensables ou Mineralogiste." [35], "Méthode | analytique | Des Fossiles."; [36], Blank.; 37-152, Text.; 153-157, "Analyse Générale, | ou | Récapitulation de la Méthode | analytique des Fossiles."; 158-174, "Table | des Matières."; [At end], 2 hand-colored plates.

**4552. 2nd edition, issue C, 1798:** Méthode | Analytique | Des Fossiles, | Fondée | Sur Leurs Caractères Extérieurs; | Par H. Struve, Professeur de Chemie, et | [...6 lines of titles and memberships...] | [tapered rule] | A Paris, | Chez Henry Tardieu. | [rule] | L'An VII.

8°: π<sup>1</sup> a<sup>8</sup> B-L<sup>8</sup> M<sup>6</sup>; 95ℓ.; [2], [i]-xii, [2], 1-174 p., 2 plates (hand-colored). PAGE SIZE: 188 x 122 mm.

CONTENTS: [2 pgs], Half title page, "Méthode | Analytique | Des Fossiles," verso blank.; [i-ii], Title page, verso blank.; iii-v, "Avertissement."; vi-xii, "Notions Préliminaires."; [1 pg], "Principes | Élémentaires | de | Minéralogie, | d'Après Le Professeur Werner."; [1 page], Blank.; 1-32, Text.; 33-34, "Note | Des Instrumens indispensables au Minéralogiste."; [35], "Méthode | Analytique | Des Fossiles."; [36], Blank.; 37-152, Text.; 153-157, "Analyse Générale, | ou | Récapitulation de la Méthode | analytique des Fossiles."; 158-174, "Table | Des Matières."; [At end], 2 plates (hand-colored).

VERY SCARCE. Second edition, first issue. The remainder of the book consists of the sheets of the first issue. "This is a rare mineralogical and geological work which outlines a new method of classifying minerals by their external characteristics. This system is based upon that of Werner but is modified in accordance with the principles used by Lamarck for the botanical classification in his 'Flore Francoise'. We learn from the title-page of this issue that the book was issued with and with out the two handcolored plates illustrating 80 color gradations."

**4553. 2nd edition, issue C, 1799:** Méthode analytique Des Fossiles, Fondée sur leurs Caractères Extérieurs; Par H. Struve ... Paris, Chez Henry Tardieu, L'An VII. [1799].

8°: xii, [2], 174 p., 2 plates (hand-colored). VERY SCARCE.

REFERENCES: LKG: XII 148. • NUC: 574, 150-1 [NS 1016192-4].

**4554. 1806:** Handbuch | des | Mineralogen | oder | Methodische Uebersicht | der | Foßilie | nach ihren unterscheidenden, auffallenden oder leicht zu |

bemerkenden Kennzeichen, | von | H. Struve, | [...2 lines of titles and memberships...] | Ausgezogen aus desselben Französischer Handschrift, und übersetzt | durch | D.B. Rätzer, Mitglied mehrerer gelehrten Gesellschaften. | [tapered rule] | Mit einer Farbentafel. | [tapered rule] | Bern, bei Bernhard und Ludwig Albrecht Haller. | 1806.

4°: π<sup>4</sup> \*\*4 1-324; 132ℓ.; [i]-xvi, [1]-256 p. One double-page engraved and hand-colored plate. Printed throughout on blue paper. PAGE SIZE: 202 x 126 mm.

CONTENTS: [i-ii], Title page, verso blank.; [iii], Dedication.; [iv], Blank.; [v]-vii, "Vorrede."; [viii], Blank.; ix-xvi, "Druckfehler, Verbesserungen und Zusätze."; [1], "Anfangsgründe | der | Kennzeichenlehre der Foßilie | oder | Erklärung der Kunstwörter | die man bei der Bestimmung der Foßilie gebraucht."; [2], Blank.; [3]-4, "Einleitung."; [5]-38, "Die äussern Kennzeichen."; 39-44, "Tabellarische | Uebersicht der Foßilie."; [45]-148, Text.; [149], "Systematische Eintheilung | der | Metallischen Substanzen."; [150], Blank.; 151-190, Text.; [191], "Oryktognostische | Uebersicht oder Tabelle | der | Metallischen Substanzen."; [192], Blank.; 193-218, Text.; [219], "Gemengte Foßilie."; [220], Blank.; 221-236, Text.; [folding colored plate]; 237-256, "Register."

VERY RARE. Translated by D.B. Rätzer [see note below] from a French manuscript. The author follows the previous work of JOHANN GEORG LENZ and AUGUST JOHANN GEORG CARL BATCH, both based on Werner, in creating a synthetic method for mineral determination. It also outlines a new method of classifying minerals by their external characteristics, which shows the influence of the principles of Lamarck used in botanical classification as described in his *Flore Française* (Paris, 1777). The instructions given to the reader are very inconsistent, however, and according to the reviewer, could cause the beginning mineralogist to go insane from the chaos presented by the system. The double-page engraved hand-colored plate shows 74 different color shades to help identify minerals.

**David Bernhard Rätzer.** (BORN: Bern, Switzerland?; DIED: Bern, Switzerland, ) *Swiss mineralogist.* Swiss mineral collector. His mineral collection is described as having a large number of crystallizations from Gothard Massif. It was purchased by Martinus van Marum in 1802 and later incorporated into Teyler's Museum in Haarlem.

REFERENCES: Leonard's *Taschenbuch*: 1, 332-3. • LKG: XII 149a. • NUC: [no copy listed]. (Rätzer) DBA: I 994, 277. • Hamberger & Meusel, *Gelehrte Teutschland*, 1796-1834. • WBI. • Wilson, *History of Mineral Collecting*, 1994: 189.

**STUCKE, Casper Heinrich.** (BORN: 1763; DIED: ) *German apothecary.*

REFERENCES: DBA: I 1244, 170. • *Deutsche Apotheker Biographie*: 2, 166. • Hamberger & Meusel, *Gelehrte Teutschland*, 1796-1834. • Poggendorff: 2, col. 1039. • WBI.

**4555. — German, 1793.**

Chemische Untersuchungen einiger niederrheinischen Fossilien eines Vesuvians und des Wassers im Basalt C.H. Stucke. Frankfurt am Mayn, Gebhard und Körber, 1793.

8°: 144 p. Nachschrift von Karl Wilhelm Nose: p. [120]-144.

VERY RARE. This work recounts the chemical analysis of the mineral species vesuvianite and the determination of the amount of water in the volcanically formed rock basalt. Included at the end is a commentary by KARL WILHELM NOSE on the preceding work.

REFERENCES: BL. • LKG: XI 19.



STÜTZ

**STÜTZ, Andreas Xavier.** (BORN: Vienna, Austria, 22 August 1747; DIED: Vienna, Austria, 12 February 1806) *Austrian naturalist & mineralogist.*

Stütz was choir master at St. Augustin's in Vienna; however, he gave up the vows to become in 1797 the director of the integrated royal Naturalien-Cabinet in Vienna. He remained in that post until his death. He was also an instructor at the Realschule in Vienna from 1778 onwards.

REFERENCES: Cleevely, *World Palaeontological Collections*, 1983: 280. • DBA: I 1245, 186-190; II 1284, 426. • Hamberger & Meusel, *Gelehrte Teutschland*, 1796-1834. • Lambrecht & Quenstedt, *Catalogus*, 1938: 421. • Poggen-dorff, 2, col. 1041. • WBL. • Wilson, *History of Mineral Collecting*, 1994. • Wurzbach, *Biographisches Lexikon Österreich*, 1856-91: 40, 182-3, biblio. • Zittel, *History of Geology*, 1901 [see Lambrecht & Quenstedt].

#### 4556. — German, 1783.

Herrn Stütz, | Kanonikus bey St. Dorothee in Wien. | Versuche | über die | Mineralgeschichte von Oesterreich | unter der Enß. | [ornate rule] | Gewidmet | dem k.k. Hofrathe des heil. röm. Reiches Ritter | von Born. | [ornament] | [double rule] | Wien, | gedruckt und verlegt bey Christ. Fried. Wappler. | [rule] | 1783.

8°: A-E<sup>8</sup> F<sup>6</sup>; 46ℓ.; [1]-92 p. PAGE SIZE: 195 x 110 mm.

CONTENTS: [1-2], Title page, verso blank.; [3-4], "Vorbericht."; [5]-49, Text, part one.; 50-92, Text, part two.

VERY SCARCE. An examination on the mineralogy of Austria around the Enß river? BARON VON BORN is somehow invoked in the title page.

REFERENCES: BL: [726.c.18.(2.)]. • LKG: XIV 245.

#### 4557. — German, 1793.

Neue Einrichtung der k.k. Naturalien-Sammlung zu Wien. Herausgegeben von Andreas Stütz ... Wien, 1793.

8°: xvi, 174 p., 3 leaves of plates.

VERY SCARCE. Collection catalog of the Naturalien-Cabinet in Vienna. The plates are engraved

plans of the 3 rooms in which the collection was displayed.

REFERENCES: Beckmann P.Ö.B.: 18, 583. • BL: [955.d.27.]. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 269. • LKG: XV 44.

#### 4558. — German, 1803.

A.S. ... physikalisch-mineralogische Beschreibung des Gold- und Silver-Bergwerkes zu Szekerembe bey Nagyag in Siebenburgen. Nebst einer Zugabe uber einige problematische Mineralien Siebenburgens. Mit Kupfern. Wien, 1803.

8°: VERY SCARCE.

REFERENCES: BL: [B.384.(3.)]. • Freilich Sale Catalog: no. 515. • LKG: XIV 858. • Ward & Carozzi, *Geology Emerging*, 1984: no. 2137.

#### 4559. — German, 1807.

Mineralogisches Taschenbuch, enthält eine Oryktographie von Unterosterreich zum Gebrauche reisender Mineralogen, herausgegeben von J.G. Megerle von Muhlfield. Mit des Verfassers Portrait. Wien und Triest, Bei Geistinger, 1807.

8°: 394 p., frontispiece (portrait of Stütz).

VERY SCARCE. Edited by J.G. Megerle von Muhlfield and issued after the death of Stütz. This pocket mineralogy describes the area of the "Unteröstereich" in Austria from the standpoint of a mineralogical journey. Also contain in the text is a descriptive list of all the known mineral collections in the vicinity of Vienna at the time of the book's publication. Huber & Huber (1981/2) reproduce this list.

REFERENCES: BL: [445.a.34.]. • Huber, S. and P. Huber, "Zur Tradition des Mineraliensammelns in Raume Wien," *Mitteilungen der Österreichischen Mineralogischen Gesellschaft*, no. 128, 77-86. • Leonard's *Taschenbuch*: 3, 325-6. • LKG: XIV 245a\*.

#### SUCKOW, Georg Adolf.

REFERENCES: ADB. • DBA: I 1248, 171-176; II 1287, 106-107. • Hamberger & Meusel, *Gelehrte Teutschland*, 1796-1834. • Lambrecht & Quenstedt, *Catalogus*, 1938: 421. • Poggen-dorff, 2, cols. 1046-7. • WBL.

#### 4560. — German, 1782.

Mineralogische Beschreibung des naturlichen Turpeths nebst einer chem. Untersuchung dieses Queckesilber Erzes. Mannheim, 1782.

8°:

RARE. Mercury.

REFERENCES: BL: [974.b.14.]. • LKG: XVI 292.

#### 4561. — German, 1790.

Anfangsgründe der Mineralogie. Leipzig, in der Weidmannischen Buchhandlung, 1790.

8°: xvi, 447, [1] p., title vignette. VERY SCARCE.

REFERENCES: BL: [726.f.4.]. • Lambrecht & Quenstedt, *Catalogus*, 1938: p. 421. • LKG: XII 125.



## SVENONIUS

### 4562. — German, 1803-4.

Anfangsgründe der Mineralogie nach den neuesten Entdeckungen. Von D. Georg Adolph Suckow ... Erster Theil [Zweite Teil]. Leipzig, in der Weidmannschen Buchhandlung, 1803-04.

2 vols. [VOL 1: 1803] 8°: xiii, 728 p., vignette on title-page. [VOL 2: 1804] 8°: [2], 729, [4] p.

VERY SCARCE. "Second edition, greatly enlarged and revised, of this introduction to mineralogy. In the years between the publication of the two editions, enormous progress had been made by Klaproth, Haüy and Brochant de Villiers (among others) in the knowledge of the chemical composition and crystal structure of minerals. This second edition contains all the latest knowledge in determining mineral species while still using Werner's system. Volume 2 contains a long section (pp. 511-653) on geognosy."

REFERENCES: BL: [970.h.8.]. • *Freilich Sale Catalog*: no. 516. • Lambrecht & Quenstedt, *Catalogus*, 1938: p. 421. • LKG: XII 126.

**SUCKOW, Gustav.** (BORN: Jena, Germany, 7 May 1803; DIED: Jena, Germany, 17 August 1867) *German mineralogist.*

Uncle of Lorenz Johann Daniel Suckow [q.v.]. Gustav received his doctorate from the University of Jena in 1828. He then pursued a career at the University which ultimately led to his being appointed professor of mineralogy at Jena. Throughout his studies Gustav was particularly interested in the chemical aspects of mineralogy.

REFERENCES: ADB. • DBA: I 1248, 177-179; II 1287, 108-111. • Günther, *Lebensskizzen der Professoren*, 1858. • Poggendorff: 2, cols. 1047-48 & 3, 1313. • WBI.

### 4563. — German, 1832.

Drei Tafeln | über das | Verhalten der Löthrohrproben | gegen | Reagentien. | [rule] | Zum | Gebrauch bei seinen Vorlesungen entworfen | von | Gustav Suckow. | [double rule] | Jena, | in der Cröker'schen Buchhandlung. | 1832.

4°: RARE.

REFERENCES: BL: [1899.cc.35.].

### 4564. — German, 1831.

Übersicht | Der | Mineralkörper | Nach | Ihren Bestandtheilen. | [ornate rule] | In Tafeln Entworfen | Von | Dr. Gustav Suckow | Privatdocent An Der Universität Zu Jena. | [ornate rule] | Darmstadt. | Druck Und Verlag Von Carl Wilhelm Leske. | 1831.

4°: [i]-viii, [1]-64 p. PAGE SIZE: 270 x 230 mm.

CONTENTS: [2 pgs], Title page, verso blank.; [iii]-vi, "Vorrede."; [vii]-viii, "Inhaltsanzeige."; [1]-64, Text.

RARE. In this overview of mineral bodies, Suckow organizes the species into seven classes: nonmetallic oxides, non metallic salts, metallic salts, metallic oxides, 'gediegene' metals, sulfur and metals in combination with sulfur, and minerals containing carbon. The minerals are presented in a series of tables that give the name and chemical composition of the species listed.

REFERENCES: BL: [1254.k.6.]. • Poggendorff: 2, cols. 1047-48.

### 4565. — German, 1835.

Zur Chemie und Mineralogie. Leipzig, 1835.

8°: VERY SCARCE.

REFERENCES: Poggendorff: 2, cols. 1047-48.

### 4566. — German, 1848.

Die | Verwitterung | im | Mineralreiche | [short rule] | Mit Rücksicht auf Agriculture und Technologie | dargestellt | von | Dr. Gustav Suckow, | Professor an der Universität zu Jena. | [tapered rule] | Leipzig, | Baumgärtner's Buchhandlung. | 1848.

8°: VERY SCARCE.

REFERENCES: BL: [7105.c.24.].

### 4567. — German, 1851.

Lehrbuch der theoretische und practische Chemie unorganische Körpern. Jena, 1851.

8°: VERY SCARCE.

REFERENCES: Poggendorff: 2, cols. 1047-48.

### 4568. — German, 1852.

Anomale Krystallformen. Jena, 1852.

8°: VERY SCARCE.

REFERENCES: Poggendorff: 2, cols. 1047-48.

### 4569. — German, 1858.

Die | Mineralogie. | [rule] | Mit besonderer Beziehung auf chemisch-genetische | und metamorphische Verhältnisse der Mineralien | dargestellt | von | Dr. Gustav Suckow, | Professor and der Universität zu Jena. | [wavy rule] | Weimar, 1858. | Druck und Verlag von Bernhard Friedrich Voigt.

8°: VERY SCARCE.

REFERENCES: BL: [7105.ee.37.].

**4570. 2nd edition, 1866:** Tabelle über der mineralogische Krystallformen. Zweite vermehrte und verbesserte Auflage. Jena, 1866.

2°: VERY SCARCE.

REFERENCES: BL: [7107.aaa.49.]. • Poggendorff: 3, 1313.

### 4571. — German, 1852.

Drei Tafeln über das Verhalten der Löthrohrproben gegen Reagentien. Jena, 1852.

Oblong 2°. VERY SCARCE.

REFERENCES: BL: [1899.cc.35.].

**SVENONIUS, Fredrik.** (BORN: Karlslund, Norrbotten, Sweden, 25 April 1852; DIED: ) *Swedish geologist.*

### 4572. — Swedish, 1888.

Stenriket | och | Jordens byggnad | (mineralogi och geologi) | Af | Fredr. Svenonius. | Fil d:r, geolog i Statens tjänst. | [rule] | (four lines quote from Völuspa) | (Med en geologisk kartsnitt öfver Europa). | [ornate rule] | Stockholm | Fahlcrantz & Co., 1888.

8°:  $\pi^1$  1-148 156 163; 244ℓ.; [ii], [1]-242 p., 141 illus.

CONTENTS: [i-ii], Title page, verso "Stockholm, Central-Tryckeriet, 1888." ; [1]-237, Text (errata at p. 237).; 238-241, Index.; 242, Contents.

VERY SCARCE. Manual of geology and mineralogy typical of the late 19th century. [Entry by Johan Kjellman]

REFERENCES: NUC. • SWIM.

**SWAMMERDAM, Jan.** (BORN: Amsterdam, The Netherlands, 12 November 1637; DIED: Amsterdam, The Netherlands, 17 February 1680) *Dutch physician.*

Swammerdam was born the son of Jan Jacobszoon [1606-1678], a prosperous apothecary and collector of natural history specimens. His family intended him for a career in the church, but in 1661 he decided instead to study medicine at Leyden. Subsequently, he studied also at Saumur in France, returned to Leyden, graduating with an M.D. in 1667. Swammerdam was among the earliest doctors to utilize a microscope in his researches of anatomy. He is recognized as one of the greatest anatomists of the 17th century.

REFERENCES: Aa, *Biographisch Woordenboek*, 1852-78. • BAB: 656, 400-429. • DSB: 13, ??, • Engel, H., "Records on Jan Swammerdam in the Amsterdam archives," *Centaurus*, 1 (1950), 143-55. • Hirsch, *Biographisches Lexikon*, 1884-8. • Jöcher, *Gelehrten-Lexikon*, 1750-51. • *The letters of Jan Swammerdam to Melchisedec Thévenot, with English translation and a biographical sketch.* Amsterdam, Swets & Zeitlinger, 1975. 8°: x, 100 p., [6] leaves of plates. • *Nature*: 165 (1950), ??, • Pöhlmann, O., *Jan Swammerdam: Naturforscher und Arzt. Biographischer Roman.* Zurich & Leipzig, Orell Füssli, 1941. 226 p., illus. [Fictionalized biography]. • Ruestow, *Microscopes in the Dutch Republic*, 1996. • Schierbeek, A., *Jan Swammerdam (12 Februari 1637-17 Februari 1680) zijn leven en zijn werken. Met een hoofdstuk. De genealogie van Swammerdam en verdere archivalia door H. Engel.* Lochem, Uitgeversmaatschappij "De Tijdstroom," [1946]. 280 p., illus., port., facsim., genealogical table. [Published as: *Nederlandsche monographleen*, 6]. • Swammerdam, J., *Ontmoeting met Jan Swammerdam, ingeleid en samengesteld door G.A. Lindeboom.* Kampen, J.H. Kok, 1980. 120 p. • WBI. • Zischka, *Allgemeines Gelehrten-Lexikon*, 1961: 634.

#### 4573. — Latin & Dutch, 1679 [Sale catalog].

Catalogus | Musei Instructissimi, | Exhibens copiosam suppellectilem variarum rerum | exoticarum, tam naturalium, quam arte factarum, | quas | indesesso labore & sumtu minime vulgari | Quinquaginta annorum spatio collegit | Johannes Jacobus Swammerdammius | Pharmacop. dum viveret vigilantissimus. | [rule] | Catalogus | Van een seer wel gestoffeerde | Konstkamer, | Inhoudende een grote mensche van allerhande uyt= | heemsche sa natuirlijke als konstelijk untgewroch= | te dingen/ met onvermoeden arbeit/ ende | meer als gemeene onkosten | In vijstigh Jaeren tijds | Vergaedert deur | Johan Jacobsz. Swammerdam, | In sijn leben Apotheker. | M DC LXXIX | Door d'Erfgenamen.

8°: A-18; 72l.; [1]-143, [1] p. PAGE SIZE: 162 x 102 mm.

CONTENTS: [1], Title page.; [2], "Ad Lectorem. | ... | Tot Den Leser.;" ; 3-143, Text.; [1 pg], Blank.

VERY RARE. At the insistence of his father, Swammerdam cataloged the family collections, which

## CATALOGUS

### MUSEI INSTRUCTISSIMI,

Exhibens copiosam suppellectilem variarum rerum  
exoticarum, tam naturalium, quam arte factarum,

quas

indessello labore & sumtu minime vulgari

Quinquaginta annorum spatio collegit

JOHANNES JACOBUS SWAMMERDAMMIUS

<sup>3</sup> Pharmacop. dum viveret vigilantissimus.

## CATALOGUS

Van een seer wel gestoffeerde

KONSTKAMER,

Inhoudende een grote mensche van allerhande uyt=  
heemsche sa natuirlijke als konstelijk untgewroch=  
te dingen. met onvermoeden arbeit/ ende,  
meer als gemeene onkosten

In vijstigh Jaeren tijds

Vergaedert deur

JOHAN JACOB SZ. SWAMMERDAM

In sijn leben Apotheker.

M DC LXXIX

Door d'Erfgenamen.

#### CATALOGUS MUSEI INSTRUCTISSIMI, 1679

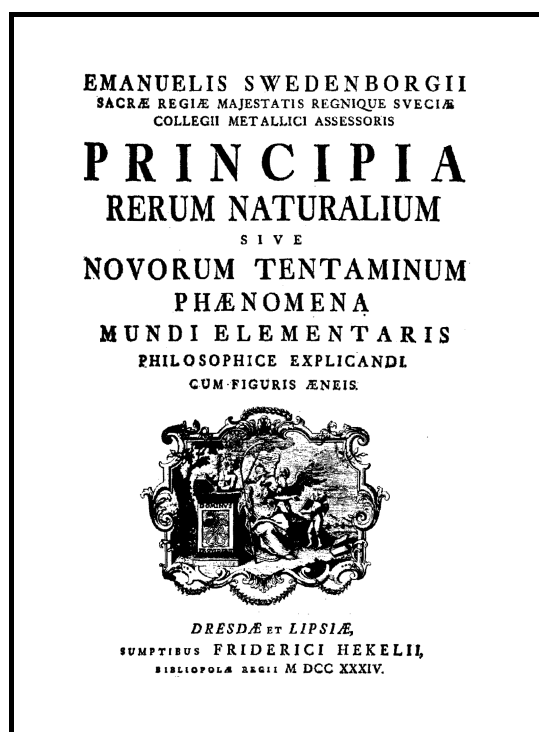
was published anonymously after the patriarch's death. It was subsequently used by the heirs to sell off the collection piecemeal. The text is printed in a double-column format with the Dutch in the left column and the Latin on the right. The cabinet contained objects from all departments of nature and art, including fossils, minerals, crystallized specimens, preserved vegetables, corals, birds, crabs, echinoderms, insects, fishes, mammals, serpents, shells, drawings, sculptures, manuscripts, other art objects, coins, medals and armor. Specimens of mineralogical interest are listed in the first section (pp. 3-12).

REFERENCES: Balsiger, *Kunst und Wunderkammern*, 1970: 463. • BL: [1044.a.34.(1.)]. • Engel, *Dutch Zoological Cabinets*, 1986: 267-9. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 275. • Murray, *Museums*, 1904: 1, 111 & 3, 202. • Wilson, *History of Mineral Collecting*, 1994: 225.

#### SWEDENBORG, Emanuel.

REFERENCES: Barr, *Index to Biographical Fragments*, 1973: 255. • BBA: I 1056, 323-336; II 1791, 243. • *Biographiskt Lexicon*. • Drugulin, *Sechstausend Portraits*, 1863: nos. 5362-7. • DSB: 13, 178-9. • *Encyclopaedia Britannica*, 11th edition. • *ISIS*, 1913-65: 2, 519-20. • Lambrecht & Quenstedt, *Catalogus*, 1938: 422. • Poggendorff: 2, cols. 1056-7. • Poole, S.F., "The Mineralogical World of Emanuel Swedenborg," *Matrix*, 5 (1997), 68-74, portrait. • Sarjeant, *Geologists*, 1980: 3, 2221-3, Suppl. (1986), 2, 815 & Suppl. 2 (1995), 2, 1126. • SBA: Scandinavian Biographical Archive: B-322, 164-443. • Schaedler, *Biographisch Handwörterbuch*, 1891: 130-1. • WBI.

#### 4574. — Latin, 1721.



PRINCIPIA RERUM NATURALIUM, 1734

Prodromus | Principiorum | Rerum Naturalium | Sive | Novorum Tentaminum | Chymiam & Physicam Experimentalem | Geometricè explicandi. | [ornament] | Amstelodami, Apud Joannem Oosterwyk, 1721. | Sumtibus Autoris.

8°: [12], [1]-199, [1] p., 15 folding plates. Title vignette. Pages 65 & 112 misnumbered 6 & 112. VERY SCARCE.

#### 4575. — Latin, 1721.

Nova Observata et Inventa circa Ferrum et Ignem cum nova luminis inventione. Amstelodami, 1721.

8°: 3 plates. VERY SCARCE.

REFERENCES: Gatterer, *Mineralogischen Literatur*, 1798-9: 2, 208. • LKG: XIII 47.

#### 4576. — Latin, 1722.

Eman. Swedenborgii | Assess. Coll. Meta II. in Suecia, | Miscellanea | Observata | Circa | Res Naturales | & | præsertim circa | Mineralia, Ignem & Montium | strata. Pars Prima [-Tertia]. | [ornament] | [rule] | Lipsiæ, 1722.

4 parts. 8°: [1]-173, [1] p., [4] folded leaves of plates. VERY SCARCE.

REFERENCES: Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 43. • LKG: VI 5 & 6. • USGS Library Catalog.

#### 4577. — Latin, 1734.

Emanuelis Swedenborgii | [...2 lines of titles and memberships...] | Principia | Rerum Naturalium

| Sive | Novorum Tentaminum | Phænomena | Mundi Elementaris | Philosophice Explicandi. | Cum Figuris Æneis. | [ornament] | Dresdæ et Lipsiæ, | sumptibus Friderici Hekelii, | bibliopolæ regii M DCC XXXIV.

[TITLE OF VOLUME 2 READS:]

Emanuelis Swedenborgii | [...2 lines of titles and memberships...] | Regnum Subterraneum | Sive | Minerale | De Ferro | Deque | Modis Liqutionum Ferri Per Europam | Passim In Usum Receptis: Deque Conversione | Ferri Crudi In Chalybem: De Vena Ferri Et Probatione | Ejus: Pariter De Chymicis Præparatis Et Cum Ferro | Et Victriolo Ejus Factis Experi- | mentis &c. &c. | Cum Figuris Æneis. | [ornament] | Dresdæ et Lipsiæ, | sumptibus Friderici Hekelii, | bibliopolæ regii M DCC XXXIV.

[TITLE OF VOLUME 3 READS:]

Emanuelis Swedenborgii | [...2 lines of titles and memberships...] | Regnum Subterraneum | Sive | Minerale | De | Cupro et Orichalco | Deque | Modis Liqutionum Cupri Per Europam | Passim In Usum Receptis: De Secretione Ejus Ab | Argento: De Conversione In Orichalcum: Inque Me- | tallia Diversi Generis: De Lapide Calaminari: | De Zinco: | De Vena Cupri Et Probatione Ejus: Pariter De Chy- | micis Præparatis, Et Cum Cupro Factis | Experimentis &c. &c. | Cum Figuris Æneis. | [ornament] | Dresdæ et Lipsiæ, | sumptibus Friderici Hekelii, | bibliopolæ regii M DCC XXXIV.

3 vols. [VOL 1] 2°: a<sup>8</sup> A-5U<sup>2</sup>; 230ℓ.; [8], [1]-452 p., frontispiece, 28 plates.; [VOL 2] 2°: a<sup>6</sup> A-5D<sup>2</sup> 5E<sup>1</sup>; 199ℓ.; [12], [1]-386 p. [VOL 3] 2°: a<sup>7</sup> A-6S<sup>2</sup> 6T<sup>1</sup>; 274ℓ.; [14], [1]-534 p., 89 plates (numbered Tab I to LXXXIX). PAGE SIZE: 326 x 200 mm.

CONTENTS: [Vol 1] [2 pages], Half title page, "Emanuelis Swedenborgii | Opera | Philosophica | Et | Mineralia. | Tres Tomi.," verso blank; [Frontispiece]; [2 pages], Title page, verso blank.; [4 pages], Dedication to Ludovice Rudolphe, signed Emanuel Swedenborg.; [8 pages], "Præfatio | De | Philosophia Nostra In Compendium Redacta.;" [1]-122, Text.; [123], Sectional title page, "Emanuelis Swedenborgii, | [...2 lines of titles and memberships...] | Examen | Principiorum Rerum | Naturalium | Cum | Phænomenis Magneticis: | Sive | Pars Secunda. | [ornament] | Dresdæ & Lipsiæ, | apud Fridericum Hekelium, | Bibliopol. regium M DCC XXXIV.;" [124], Blank.; [125]-372, Text.; [373], Sectional title page, "Emanuelis Swedenborgii, | [...2 lines of titles and memberships...] | Principiorum | Rerum Naturalium | Sive | Novorum Tentaminum | Phænomena Mundi Philosophice | Explicandi | Pars Tertia. | [ornament] | Dresdæ & Lipsiæ, | apud Fridericum Hekelium, | Bibliopol. regium M DCC XXXIV.;" [374], "Omne tulit punctum, qui miscuit | utile dulci.;" [375]-449, Text.; 450-452, Appendix.

[Vol 2] Pp. [2 pages], Title page, verso blank.; [4 pages], Dedication to King Wilhelm, signed Emanuel Swedenborg.; [6 pages], "Præfatio.;" [1]-254, Text.; [255], Sectional title page, "Emanuelis Swedenborgii, | [...2 lines

of titles and memberships... | Regnum Subterraneum | Sive | Minerale | De | Vena Et Lapide | Ferri, | Ut Et | De | Variis Ejus Probandi | Modis. | Classis Secunda. | [ornament] | Dresdæ & Lipsiæ, | apud Fridericum Hekelium, | Bibliopol. regium M DCC XXXIV."; [256], Blank.; [257]–298, Text.; [299], Sectional title page, "Emanuelis Swedenborgii, | [...2 lines of titles and memberships...] | Regnum Subterraneum | Sive | Minerale | De Variis | Cum | Ferro Et Ejus | Victriolo | Chymicis Præparatis | Et | Factis Experimentis. | Classis Tertia. | [ornament] | Dresdæ & Lipsiæ, | apud Fridericum Hekelium, | Bibliopol. regium M DCC XXXIV."; [300], Blank.; [301]–386, Text.

[Vol 3] Pp. [2 pages], Title page, verso blank.; [4 pages], Dedication.; [8 pages], "Præfatio."; [1]–400, Text.; [401], Sectional title page, "Emanuelis Swedenborgii, | [...2 lines of titles and memberships...] | Regnum Subterraneum | Sive | Minerale | De | Vena Et Lapide | Cupri | Ut Et | De Variis Ejus Probandi | Modis. | Classis Secunda. | [ornament] | Dresdæ & Lipsiæ, | apud Fridericum Hekelium, | Bibliopol. regium M DCC XXXIV."; [402], Blank.; [403]–446, Text.; [447], Sectional title page, "Emanuelis Swedenborgii, | [...2 lines of titles and memberships...] | Regnum Subterraneum | Sive | Minerale | De Variis | Cum | Cupro | Et | Orichalco | Chymicis Præparatis | Et | Factis Experimentis. | Classis Tertia. | [ornament] | Dresdæ & Lipsiæ, | apud Fridericum Hekelium, | Bibliopol. regium M DCC XXXIV."; [448], Blank.; [449]–534, Text.; [At end], 89 plates.

VERY SCARCE. Swedenborg's cosmological and metallurgical masterpieces, comprising the *Principia rerum naturalium*, *Regnum subterraneum sive minerale de cupro...*, and *Regnum subterraneum sive minerale de ferro*. In the first work, "probably conceived as a counterpart to Newton's *Principia*, he sought a comprehensive physical explanation of the world based on mathematical and mechanical principles. While remaining faithful to the general principles of Cartesian natural philosophy... Swedenborg elaborated upon them. According to his cosmogony the physical reality had developed from the mathematical point, which was an entity between infinite and finite... In contrast to Descartes, Swedenborg believed that the planets had developed from the chaotic solar mass through expansion of its surrounding shell, which finally jointed to form a belt along the equatorial plane of the sun. It then exploded, forming the planets and the satellites. Although the basic construction of Swedenborg's thought heralded the later planetary theories of Buffon, Kant, and Laplace, there is nothing to indicate that it exerted any direct influence on posterity." (DSB)

The following two volumes, the results of his official duties and investigations as assessor to the Swedish Board of Mines, are on the mining, mineralogy, and metallurgy of copper (and brass), and iron (and steel). They give a highly detailed survey of the industry, the mining techniques employed, the chemistry utilised, and the geology of the ore deposits, and are illustrated with exceptionally fine plates, the best illustrations of mining technology since Agricola.

Swedish transl., 1923: *Mineralriket av Emanuel Swedenborg ... om järnet och de i Europa vanligast vedertagna järnframställningssätten ... med illustrationer den Svenska upplagan under redaktion av Hj. Sjögren ...* Stockholm, Wahlström & Widstrand, 1923.

8°: xxix, 470 p., illus., plates (part fold.) fold. map, diagrs. (part fold.).

REFERENCES: *Freilich Sale Catalog*: no. 517. • Gatterer, *Mineralogischen Literatur*, 1798-9: 2, 208 & 236-7. • Graesse, *Trésor de Livres Rares*, 1859-69: 6, 533. • Hoover Collection: nos. 773-75. • LKG: XIII 48a. • NLM 18th Century Books (Blake): 440. • Parkinson, *Breakthroughs*, 1985: p. 151. • Partington, *History of Chemistry*, 1961-70: 2, 164-7. • Poole, S.F., "The Mineralogical World of Emanuel Swedenborg," *Matrix*, 5 (1997), 68-74, portrait. • Ward & Carozzi, *Geology Emerging*, 1984: no. 2140. • *Wheeler Catalogue*: 283.

4578. *Abridged transl., 1846*: The | Principia; | Or, | The First Principles Of Natural Things, | Being | New Attempts | Toward A | Philosophical Explanation Of The Elementary World. | By | Emanuel Swedenborg, | [...5 lines of titles and memberships...] | Translated From The Latin | By | The Rev. Augustus Clissold, M.A. | Volume I. [-II.] | London: | W. Newbery, 6, King Street, Holborn; | H. Baillière, 219, Regent Street; | Otis Clapp, School Street, Boston, United States. | [short rule] | 1846.

2 vols. [VOL 1] 8°: [i]–viii, [i]–cii, [6], [1]–380 p., illus. [VOL 2] 8°: [8], [1]–413, [1] p., illus. PAGE SIZE: 218 x 142 mm.

CONTENTS: [Vol 1] [i–ii], Half title page, "The Principia.", verso "London: | Printed By Walton And Mitchell, | Wardour-street, Oxford-street."; Frontispiece: Map of the world.; [iii–iv], Title page, verso blank.; [v], Dedication.; [vi], Blank.; [vii]–viii, "Contents Of Volume I."; [i]–lxxxvii, "Introduction By The Translator."; [lxxxviii], Blank.; [lxxxvix]–xcii, "Serenissime Princes | Ludovice Rudolphe, | ..."; [xcii], Blank.; [xciii]–cii, "Preface."; [1 pg], Sectional title page, "The Principia. | Part I."; [4 pgs], Diagrams of the earth's poles.; [1 pg], Blank.; [1]–208, Text.; [209], Sectional title page, "The Principia. | Part II."; [210], Blank.; [211]–380, Text.

[Vol 2] [2 pgs], , Half title page, "The Principia.", verso "London: | Printed By Walton And Mitchell, | Wardour-street, Oxford-street."; [2 pgs], Title page, verso blank.; [1 pgs], "Contents Of Volume I."; [1 pg], Blank.; [1 pg], Sectional title page, "The Principia. | Part II.—continued."; [1 pg], Blank.; [1]–225, Text.; [226], Blank.; [227], "Sectional title page, 'The Principia. | Part III.'"; [228], Blank.; [229]–362, Text.; [363]–367, "Appendix."; [368], Blank.; [369]–374, "Preface To The Treatise | On | Iron, | In | Swedenborg's Mineral Kingdom."; [375]–383, "Preface To The Treatise | On | Copper, | In | Swedenborg's Mineral Kingdom."; [384], Blank.; [385]–405, "Index Of Subjects."; [406], Blank.; [407]–413, "Appendix."; [1 pg], Errata.

VERY SCARCE. Translation by Augustus Clissold of the first volume of *Principia Rerum Naturalium* (Leipzig, 1734).

Augustus Clissold. (BORN: 1797; DIED: 1882) *English writer & Swedenborgian*.

[  
[ BIOGRAPHY NEEDED ]  
[

REFERENCES: BL. • NUC. (Clissold) Allibone, *Dictionary of English Literature*, 1859-71. • BBA: I 241, 113-118. • Boase, *Modern English Biography*, 1892-1921. • Thomas, *Dictionary of Biography*, 1884. • WBI.

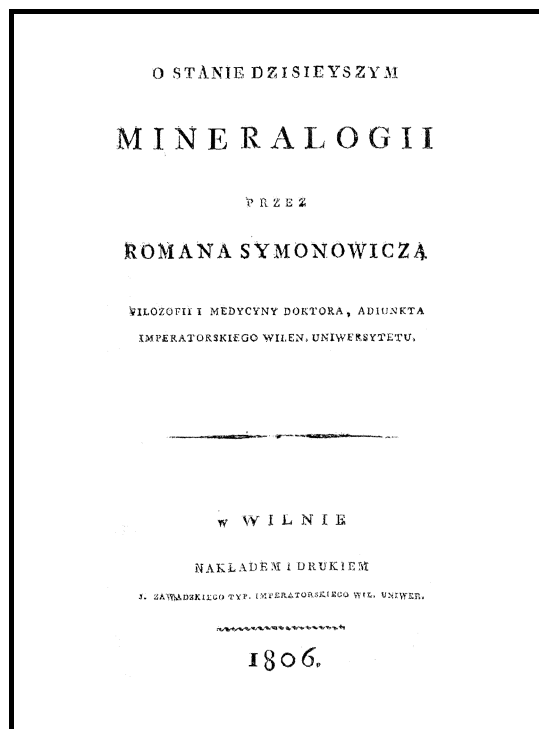
## SYMONOWICZ, Roman. *Polish physican.*

Symonowicz was associated with Wilno University, being an adjunct professor of philosophy there.

REFERENCES: Gasiorowski, *Zbiór Wiadomości do Historii*, 1839-55. • Kozirowski, *Materiały do Polsce Mineralogii*, 1925 [p. 654]. • Orgelbranda, *Encyklopedia Powszechna*, 1898-1912. • PBA: *Polskie Archiwum Biograficzne*: I 534, 72-75. • *Polski Słownik Biograficzny*. • WBI.

## 4579. — Polish, 1806 [First edition].

O Stanie Dzisieyszym | Mineralogii | Przez | Romana Symonowicza | [...2 lines of titles and



MINERALOGII, 1806

memberships... | [ornate rule] w Wilnie | Nakładem  
I Drukiem | J. Zawadzkiego Typ. Imperatorskiego  
Wil. Uniwer. | [wavy rule] 1806.

8°: [2], 1-188, [2] p. PAGE SIZE: 116 x 200 mm.

CONTENTS: [2 pgs], Title page, verso "Tunc Naturae rerumgratias ago..cum in secretiora ; ejus- | intravi; cum disco universi uis auctor sit,uis custos. | Seneca quaest. Nat."; [1-55, Part one describing mineralogy] p. 1-2, "Przedmiot Mineralogii."; p. 2-8, "Historia Mineralogii."; p. 8-11, "Nauki składające umiejętność Mineralogii."; p. 11, "Definicja Mineralogii-Zamiar; układu oryktognostycznego Werner."; p. 12-16, "Przyczyny dla których nie stosował się do wypadków z rozkładów chemicznych."; p. 16-18, "Do doskonałości układu oryktognostycznego potrzebna byłaby znajomość przedmiotów Geognozji."; p. 18, "Charaktery; gatunkowe."; p. 19, "Definicja gatunku w Oryktognozji."; p. 20, "Różnica gatunków wynika ze wewnętrznego czyli fizycznego mineralów."; p. 21-26, "Chimianie może pokazać skład mineralów Fizycznego."; p. 26-32, "Dzisiejsze wynalazki chemii mineralogicznej nie miały cech prawdy."; p. 26-28, "Charaktery pierwiastków."; p. 32, "Prawdziwe wynalazki chemii wpłynęły na doskonałość mineralogii."; p. 33, "Natura sama podzieliła królestwo mineralne na 4 klasy."; p. 34-35, "Rodzaje."; p. 36-39, "Diament stanowi rodzaj udzielny w klasie kamieni "; p. 39-41, "Porządek w którym rodzaje następują jeden po drugim."; p. 42, "Gatunki zbliżone do siebie stanowią rodziny."; p. 43-45, "Gatunki podzielone są na podgatunki."; p. 45, "Autor układu powinien podać charakterystykę do rozpoznania minerałów w układzie pomieszczonych."; p. 46, "Prymitywy tych charakterów."; p. 46-48, "Charaktery chemiczne, zewnętrzne fizyczne."; p. 48-55, "Wylczenie charakterów zewnętrznych czyli oryktognostycznych."; [56-146, Part two describing geology] p. 56, Sectional title page, "Geognozja."; p. 57, "Była ziemia swoją postacią dowodzi, że jej masa była

niegdyspłynna."; p. 58, "Umnieszenie masy roscieku było przyczyną powstania ciał mineralnych."; p. 59, "Dowody geognostyczne ze mineralisa uformowane wroscieku."; p. 60, "Jakieby były natury ten rosciek?"; p. 61, "Woda wznaszła się niegdys wysoko nad powierzchnię ziemi."; p. 61, "Przyczyny zmniejszenia masy wody."; p. 62-65, "Epoki powstania ziemi naszej."; p. 65-67, "Powierzchnia ziemi uformowanej."; p. 67, "Ustawa odwieczna dla wszystkich istot stworzonych."; p. 68-76, "Działanie wzajemne wzajemne ziemi atmosfery I t.d."; p. 76-77, "Wulkany."; p. 77-83, "Trzesienia ziemi."; p. 83-96, "Korale I Zoofita odmiany sprawują w powierzchniach."; p. 96-100, "Skład wewnętrzny ziemi."; p. 100-116, "Klasa I. Skaly czyli góry pierwiastkowe."; p. 116-123, "Klasa II. Saty I góry przechodowe."; 123-129, "Klasa III. Skaly I góry warstowe."; 129-132, "Klasa IV. Skaly i góry; napływowe." 132-146, "Klasa V.; Skaly; I góry; wulkaniczne."; [157-188, Part three describing Haüy's system of mineralogy], "Wykład Systematu Mineraloga Francuzkiego Häuy."; p. 150-188, "Dalsze wyłożenie systematu Häuy."; [1 pg], Errata.; [1 pg], Blank.

VERY RARE. This is a general introduction to mineralogy containing a section on gemstones, including a description of diamonds. It follows Wernerian doctrine closely by describing the value of external characters in distinguishing mineral species; however, there is also a review of the mineralogical system of RENÉ JUST HAÜY, which appears to be the first introduction in Polish to the Frenchman's work.

REFERENCES: Czarniecki, Stanisław. "Beispiele wissenschaftlicher Beziehungen zwischen polnischen und deutschen Gelehrten auf dem Gebiet der Geologie im Zeitalter der Aufklärung", *Zeitschrift für Geologische Wissenschaften*, 8 (1980), no. 2, 135-50, 6 illus. [Study on the interaction between Polish and German geologists in the 18th and 19th centuries.]: [p. 141]. • Koziorowski, *Materiały do Polskiej Mineralogii*, 1925: [pp. 654-60]. • Kreutz, *Historia Nauk Mineralogicznych*, 1925: [p. 611]. • Morozewicz & Wolny, *Podręcznik Mineralogii*, 1931: [pp. xiv-xv].

## SYSTEMATISCH TABELLARISCHE.

## 4580. — German, 1806.

Systematisch – Tabellarische Darstellung der Fossilien, nach ihren Geschlechtern, Namen, Farbe, Land und Ort, wo sie gefunden werden, für Mineralogen und Liebhaber der Mineralogie. Chemnitz und Leipzig, Bey Schröter, 1806.

8°:

RARE. Although the title indicates otherwise, this presentation is neither systematic, nor tabular. The unknown author must have chosen to remain such because the text, interlaced with surprising mistakes, was prepared like an index to a possible mineralogical textbook – not as systematic tables. Its content, full of errors and negligence, is arranged with columns representing the classes and families but with subsequent rows in alphabetical sequence. This work concludes with a truly comic section covering the geognostic. The whole is printed upon only one side of each page, presumably so that it could be readily cut apart, and the resulting strips of paper attached to specimens. [Leonard's *Taschenbuch* (1807); 1, pp. 325-6]

REFERENCES: LKG: XII 170.

## SYSTEMATISCHES VERZEICHNISS.

See: Prange, Christian Friedrich.

**SZABÓ, József.** (BORN: Kalocsa, Hungary, 14 March 1822; DIED: Budapest, Hungary, 10 April 1894) *Hungarian mineralogist & geologist.*

Szabó was a pioneer in the geological mapping of the Budapest region, and other areas of Hungary. He worked in association after 1858 with the Geologische Reichsanstalt, of Vienna. He made many studies of rock structure using the microscope and the application of flame tests in identifying minerals.

REFERENCES: *Földtani Közlöny*: 25 (1895), nos. 9-10, p. 273-302, portrait. • *Magyar Életrajzi Lexikon*: 2, ?? • *Proceedings of the Geological Society, London*: 1895, p. xlix-l. • *Sanjeant, Geologists*, 1980: 2, p. 2226-7.

## 4581. — Hungarian, 1861 [First edition].

Az Ásványtan Alapvonalai, Különös Tekintettel az Ásványok Gyakorlati Meghatározására. Pest, Heckenast, 1861.

8°: xii, 332 p., illus.

RARE. Szabó published the first modern university textbook on mineralogy written in Hungarian. His large *Ásványtan* (Mineralogy) reference book appeared in 1861. The first book was followed by three revised and widely extended new editions. It had great influence in the Hungarian institutes of higher learning. In his books he emphasised the importance of the chemical properties of minerals and included several practical analytical methods applicable especially for minerals, some of them developed by himself. In the first edition of 1861, the *Mineralogy* of Szabó the crystallography part was based on Carl Friedrich Naumanns book (1856), the descriptive mineralogy on James D. Dana's mineralogy systematics (1854).

REFERENCES: Buda, G., G. Papp, and T.G. Weiszbürg., "Short History Of Teaching Mineralogy At The Eötvös Loránd University, Budapest," *Acta Mineralogica-Petrographica*, 45 (2004), no. 1, p. 5-20. • NUC. • Szinnyei, *Hungarica Historiae Naturalis*, 1878: cols. 745-6.

## 4582. 2nd edition, 1864: Az Ásványtan Alapvonalai, Különös Tekintettel az Ásványok Gyakorlati Meghatározására. Pest, Heckenast, 1864.

8°: xiv, 398, [2] p., illus.

RARE. In the second edition, Szabó gives more crystal drawings that are included in the crystallography part. The systematic part was updated with the data Szabó received from J. D. Dana as appendix to Dana's 4th edition and from Kobell as the latest results in the field of chemical identification of minerals.

REFERENCES: Buda, G., G. Papp, and T.G. Weiszbürg., "Short History Of Teaching Mineralogy At The Eötvös Loránd University, Budapest," *Acta Mineralogica-Petrographica*, 45 (2004), no. 1, p. 5-20. • NUC. • Szinnyei, *Hungarica Historiae Naturalis*, 1878: cols. 745-6.

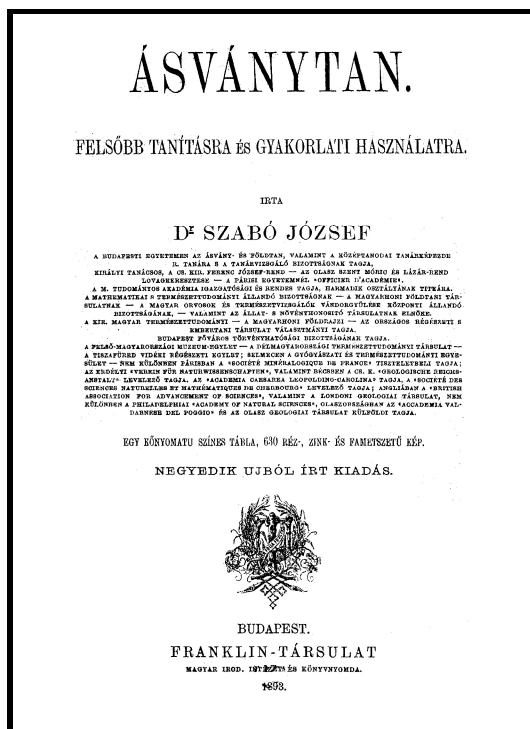
## 4583. 3rd edition, 1876: Ásványtan. Felsőbb Tanításra és Gyakorlati Használatra. Budapest, Franklin-Társulat, 1876.

8°: xvi, 614, [2] p., illus.

RARE. The third edition of Szabó's *Mineralogy* was fully rewritten reflecting the significant developments of mineralogy. Szabó still used Naumann's system and notation in the crystallography part. Optical mineralogy was extended considerably. The Nicol prism and the polarising microscope were included. The relationship between optical properties and symmetry of minerals was also discussed on the basis of Des Cloizeaux's work (1862,

1874). In the chemical identification chapter Bunsen's methods (blowpipe, flame colouration) were demonstrated and he treated also the fusibility of minerals. In these latter fields his own special contribution (mainly for the identification of feldspars) was discussed in details as well. He added the description of new minerals discovered between the 5th edition of Dana's book (1868) and 1875 using the Second Appendix to Dana's Mineralogy by Edward S. Dana. Not less than 900 mineral species were included in this third edition.

REFERENCES: Buda, G., G. Papp, and T.G. Weiszbürg., "Short History Of Teaching Mineralogy At The Eötvös Loránd University, Budapest," *Acta Mineralogica-Petrographica*, 45 (2004), no. 1, p. 5-20. • NUC. • Szinnyei, *Hungarica Historiae Naturalis*, 1878: cols. 745-6.



## ÁSVÁNYTAN, 1893

4584. 4th edition, 1893: Ásványtan. | Felsőbb Tanításra és Gyakorlati Használatra. | Irta | Dr. Szabó József | [...20 lines of titles and memberships...] | Egy Könyvmatur Színes Tábla, 630 Réz-, Zink- És Fametszetű Kép. | Negyedik Ujból Írt Kiadás. | [ornament] | Budapest. | Franklin-Társulat | Magyar Irodalmi és Könyvnyomda. | 1893.

8°. RARE. In 1893, one year before his death, the fourth edition of his *Mineralogy* was published. Mineralogy developed essentially in the period between the last edition and Szabó felt he had to revise almost all parts of the 1876 book. He entirely rewrote and enlarged the book. He presented the spherical projection, started to use Miller indices alternatively with the Naumann notation. Pyroelectricity, piezoelectricity and magnetic properties of minerals are discussed. The Tables for Identification of Minerals were enlarged as well.

A large number of new mineral species were added to the descriptive mineralogy chapter, based on the 6th edition of Dana's Mineralogy, published in the previous year (1892). Here, beside the chemical, crystallographic

## TAILLE DE BONDAROY

and physical properties of minerals, genetic and locality data are also given. Szabó includes the results of several mineral synthesis experiments (Berthier, Fremy etc.) in order to give some idea on how minerals form in their natural environment.

Concerning feldspars, a mineral group Szabó invested a lot of his research time in, Des Cloizeaux and Tschermaks feldspar determination methods and data are given in detail. These methods, based on optical properties (extinction angle), became widespread at the end of the 19th century and surpassed Szabó's flame-based method. It is not common for a 72-year-old scientist to have enough strength to keep up with the development of science, especially as development overwrote a large part of his oeuvre.

REFERENCES: Buda, G., G. Papp, and T.G. Weiszburg., "Short History Of Teaching Mineralogy At The Eötvös Loránd University, Budapest," *Acta Mineralogica-Petrographica*, 45 (2004), no. 1, p. 5-20. • NUC. • Papp, *Magyar Topografikus*, 2002: p. 142.



SZINNYEI

**SZINNYEI, József.** (BORN: Komárom, Hungary, 18 March 1830; DIED: Budapest, Hungary, 9 August 1913) *Hungarian bibliographer.*

REFERENCES: Internet search. • *Magyar Életrajzi Lexikon*.

### 4585. — Hungarian, 1878 [Bibliography].

Bibliotheca Hungarica | Historiae Naturalis Et Matheseos. | [rule] | Magyarország | Természettudományi És Matematikai | Könyvészete | 1472-1875. (Száz Aranynyal Jutalmazott Pályamű.) | Készítették | Szinnyei József | Az Egyetemi Könyvtár Első Öre | És | Dr. Szinnyei József. | Kiadja | A Kir. Magyar Természettudományi Társulat. | [ornate rule] | Budapest. | Az Athenaeum R. Társ. Könyvnyomdája. | 1878.

4°: [i]-viii p., [1]-1008 cols.

CONTENTS: [2 pgs], Title page, verso blank.; [1 pg], Preface, signed Szily Kálmán, 1 September 1878.; [1 pg], List of abbreviations.; [v]-viii, "A szerzők előszava."; Cols. [1]-868, Bibliography.; Cols. [869]-942, "Névtelenül megjelent művek." (=chronological listing of mathematical books, from 1591-1875.); Cols. [943]-988, "Szaklapok és folyóiratok; évkönyvek és naptárak; gyűjteményes munkák." (=list of Hungarian periodicals and other journals.); Cols. [989]-1008, "Pótlék."

VERY RARE. This remarkable bibliography of c15,000 entries provides an alphabetical listing by author of books published from 1472 to 1875 in all languages related to Hungarian mathematics and natural history, including mineralogy. It is a comprehensive list with each entry containing full pagination together with occasional short commentaries in Hungarian about the books scholarly value.

REFERENCES: Besterman, *Bibliography of Bibliographies*, 1965-6: col. 3727 & 4159. • BL: [Ac.2918/8.]. • Bridson, *History of Natural History*, 1994: Ca289. • Margerie, *Bibliographies Géologiques*, 1896: no. 791.

### TAILLE DE BONDAROY, Jean de la.

See: *La Taille De Bondaroy, Jean De.*

**TARDIEU, Ambroise.** (BORN: Paris, France, 2 March 1788; DIED: Paris, France, 17 January 1841) *French engraver.*

Ambroise was born into a family with a tradition of fine engraving, and from this connection he early on became a pupil of his uncle, the famed French engraver, Pierre Alexandre Tardieu [1756-1844]. After exhibiting talent in the field, Ambroise followed in the family vocation becoming well known as an engraver of portraits. He also received an appointment as geographical engraver for the French government, a position that carried a small yearly stipend. To supplement the meager income of this position, he began a trade in prints, books and maps. Today, he is best remembered for the over 800 engraved portraits produced during his career, many of which render famous scientists from that period.

REFERENCES: AFB: I 978, 91-94. • *Bryan's Dictionary of Painters*, 1903-4: 5, 152. • *Biographie Universelle*: 44, 874-5. • *Nouvelle Biographie Générale* (Hoefer). • Thieme & Becker, *Allgemeines Lexikon*, 1907-50: 32, 443. • WBI.

### 4586. — French, 1825.

Entretiens | Sur | La Minéralogie, | D'Après La Méthode | Du Célèbre Haüy; | Accompagnés De Son Portrait Et De 23 Planches, | Par Ambroise Tardieu. | [ornament] | Paris, | Boulland Et Cie, Libraires-Éditeurs, | Palais-Royal, Galeries De Bois, N° 254. | [ornate rule] | 1825.

8°: [i]-vii, [1]-528 p., frontispiece (line portrait of Haüy), 12 folding plates. PAGE SIZE: 175 x 100 mm.

CONTENTS: [i-ii], Half title page, "Entretiens | sur | La Minéralogie," verso "Imprimerie De Huzard-Courcier. | Rue du Jardinnet, N° 12."; [Frontispiece, engraved line drawing of René Just Haüy]; [iii-iv], Title page, verso blank.; [v]-vii, "Table Des Matières."; [1]-487, Text.; [488], Blank.; 489-516, "Table Analytique | Des Minéraux | Contenus Dans Cet Ouvrage."; [517]-528, "Table Alphabétique."; [At end], 12 folding plates.

VERY RARE. A derivative work following closely the theories of RENÉ JUST HAÜY. The volume begins with a description of mineralogy and crystallography, including discussions of goniometers. It continues with descriptions of various minerals arranged according to Haüy's classification scheme, and concludes with a section on minerals of economic importance. Plates 1-3 show various apparatus, 4-11 are of crystal drawings and plate 12 depicts various mineral specimens in an uncolored reengraved version of the frontispiece from DELVALLE LOWRY'S *Conversations on Mineralogy* (1st ed., London, 1822). Although the title calls for 23

plates, the work appears to have been completed after only twelve plates because on the reverse of plate 12 is the note "Finis."

This curious text-book for french youth has been written in a dialogue form between Mme de Beaumont, Gustave and Caroline and treats all kinds of minerals in 16 chapters. This Mme de Beaumont may well be the wife of the famous Elie de Beaumont.

REFERENCES: BL: [no copy listed]. • NUC: 583, 155 [NT 0038620].



TARGIONI-TOZZETTI

**TARGIONI-TOZZETTI, Giovanni.** (BORN: Florence, Italy, 11 September 1712; DIED: Florence, Italy, 7 January 1782) *Italian physician, geologist & mineralogist.*

Targioni-Tozzetti was first a professor at Pisa, then director of the botanical gardens of Florence. In Florence he was also appointed the curator of the Magliabechi Library. He was a member of the Leopoldian Academy.

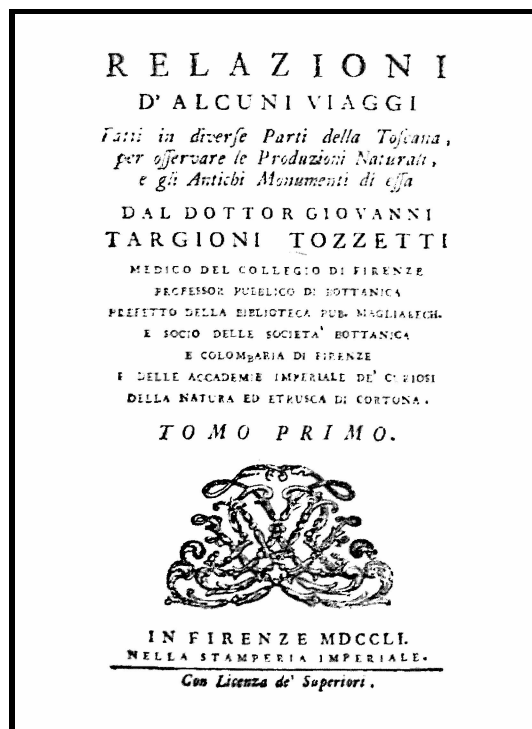
REFERENCES: ABI: I 940, 86-88; II 610, 285-287. • Frati, *Dizionario Bio-bibliografico Italiani*, 1933. • Parenti, *Aggiunte al Dizionario*, 1952-60. • Poggendorff: 2, col. 1068. • Targioni Tozzetti, O., *Opuscoli e schede mineralogiche: manoscritti e lettere di Ottaviano Targioni Tozzetti*. Conoscenze naturalistiche a Firenze tra Sette e Ottocento a cura di Curzio Cipriani, Chiara Nepi, Luisa Poggi. Firenze, L.S. Olschki, 2000. LIV, 128 p., illus. [Published as: *Studi / Accademia Toscana di Scienze e Lettere la Colombaria*, no. 188; ISBN 88-222-4869-4.]. • Vaccari, *Mineralogy and Mining in Italy*, 1998. • WBI.

#### 4587. — Italian, 1751-4 [First edition].

Relazioni | D'Alcuni Viaggi | Fatti in diverse Parti della Toscana, | per osservare le Produzioni Naturali, | e gli Antichi Monumenti de essa | Dal Dottor Giovanni | Targioni Tozzetti | [...7 lines of titles and memberships...] | Tomo Primo. | [ornament] | In Firenze MDCCLXI. | Nella Stamperia Imperiale. | [rule] | Con Licenza de' Superiori.

6 vols. [VOL 1: 1751] 8°: [i]-xxiv, 1-448 p. [VOL 2: 1751] 8°: vii, 456 p. [VOL 3: 1751] 8°: viii, 462 p. [VOL 4: 1751] 8°: vii, [1], 351, [1] p. [VOL 5: 1751] 8°: viii, 459, [1] p. [VOL 6: 1754] 8°: [i]-iv, [1]-480 p.; xii, 135, [1] p.

CONTENTS: [Vol 1] [i-ii], Title page, verso blank.; [iii], Dedication.; [iv], Three lines of quotation, signed



RELAZIONI, 1751

Seneca.; [v]-xviii, "Cortesi Lettori."; xix-xxiv, "Indice | Degli Articoli | Contnuti Nel Presente Volume."; 1-448, Text.

[Vol 2] Not examined.

[Vol 3] Not examined.

[Vol 4] Not examined.

[Vol 5] Not examined.

[Vol 6] [i-ii], Title page, verso four lines of quotation, signed Varro.; iii-iv, "Indice."; 1-438, Text.; 439-480, "Lista D'Alcuni Fossili Della Toscana."

VERY SCARCE. The naturalist florentino Giovanni Targioni public Tozzetti in six volumes the Relations of some travels made in various parts of the Tuscany, where he illustrates the geomorfologica importance of the erosive action of running waters and classifies the reliefs of the Tuscany in mounts 'primitivi' composed of compact cliff to traditions and hills stratified of posterior formation.

Other Authors: Micheli, Pier Antonio, 1679-1737.

REFERENCES: BL: [10131.b.16.]. • LKG: XIV 523a.

**4588. 2nd edition, 1768-79:** Relazioni | D' Alcuni Viaggi | Fatti In Diverse Parti | Della Toscana | Per Osservare Le Produzioni Naturali, | E Gli Antichi Monumenti Di Essa | Dal Dottor | Gio. Targioni Tozzetti. | Edizione Seconda. | Con Copiose Giunte. | Tomo Primo. | [ornament] | In Firenze MDCCLXVIII. | Nella Stamperia Granducale, | Per Gaetano Cambiagi. | [rule] | Con Liceza & Superiors.

12 vols. [VOL 1] 8°: xlii, 464 p., one map, 3 plates. [VOL 2] 8°: xi, [1], 473, [1] p., one map, 3 plates. [VOL 3] 8°: viii, 473, [1] p., one map, 2 plates. [VOL 4] 8°: xvi, 478 p., one map, one plate. [VOL 5] 8°: xxviii, 474 p., one map, one plate. [VOL 6] 8°: vii, [1], 430 p., one map, one plate. [VOL 7] 8°: vii, [1], 488 p., one map, one plate. [VOL 8] 8°: xx, 528 p., 2 maps. [VOL 9] 8°: iv, 456 p. [VOL 10] 8°: xi, [1], 466 p., one map, 7 plates. [VOL 11] 8°: xi, [1],



## TAUBE

455, [1] p., one map, 3 plates. [VOL 12] 8°: vii, [1], 446 p. PAGE SIZE: 140 x 194 mm.

VERY SCARCE. Notes: "Relazione del viaggio fatto l'anno 1733...per diversi luoghi dello Stato senese dal celebre bontanico Pier' Antonio Micheli e dal signor dottore Gio. Batista Mannaioni...Distesa dal medesimo Micheli, con alcune annotazioni di Giovanni Targioni Tozzetti": v. 9, p. 333-456; v. 10, p. 1-118. "Relazione di un viaggio fatto da Pier' Antonio Micheli nell' estate dell' anno 1734, per le montagne di Pistola": v. 10, p. 159-178. "Lettera geologica di sua eccellenza il Signor Giovanni Strange": v. 10, p. 119-158. "Indice generale": v. 12, p. 419-446.

Other Authors: Micheli, Pier Antonio, 1679-1737. Strange, John, Sir, 1696-1754.

**Facsimile reprint, 1971:** *Relazioni d'alcuni viaggi fatti in diverse parti della Toscana per osservare le produzioni naturali, e gli antichi monumenti di essa Giovanni Targioni Tozzetti*. Bologna, Forni Editore, 1971-1972. 12 vols. [Reprint of the 1768-79 ed. published by G. Cambiagi, Firenze.]

REFERENCES: BL: [980.f.7-18.]. • Gamba: no. 2463.

**4589. French transl., 1792:** *Voyage Minéralogique Philosophique, et Historique, en Toscane, par le Docteur Jean Targioni Tozzetti*. Paris, Chez Lavilette, 1792.

2 vols. [VOL 1] 8°: [4], 414 p. [VOL 2] 8°: [4], 503, [1] p. VERY SCARCE.

REFERENCES: BL: [982.b.26.]. • DSB: 13, 257. • *Freilich Sale Catalog*: no. 519. • Hoover Collection: no. 777. • LKG: XIV 525c. • Roller & Goodman, *Catalogue*, 1976: 2, 482.

**4590. — German, 1787** [Translation].

Herrn Doktors Johann Targioni Tozzetti's Reisen durch verschiedene Gegenden des Grossherzogthums Toskana in einem Auszuge von J.C. Jagemann ... Mit einem dazu gehörigen Kupfer. Leipzig, In der Weygandschen Buchhandlung, 1787.

2 vols.

VERY SCARCE. Other Authors: Jagemann, Christian Joseph, 1735-1804.

Notes: Adapted from the author's *Relazioni d'alcuni viaggi fatti in diverse parti della Toscana ...*—v. 1, p. VIII-IX

REFERENCES: BL: [no copy listed]. • LKG: XIV 524b.

**4591. — Italian, 1754.**

Prodromo della Corografia e della Topografia Fisica della Toscana, opere del Dottor Giovanni Targioni Tozzetti. Firenze, Stamperia Imperiale, 1754.

8°: 210 p.

RARE. An important work in which the author shows that the bones of elephants found in the sediments of the Arno Valley were not the remains of the elephants that accompanied Hannibal's army during the Second Punic War (as was believed at the time).

REFERENCES: BL: [662.b.13.]. • LKG: XIV 522. • Pritzel, *Thesaurus Literaturæ Botanicae*, 1871-3: no. 9103.

## TASCHENBUCH FÜR DIE GESAMMTE MINERALOGIE.

**4592. — German, 1807-29** [Periodical].

Taschenbuch | für die gesammte | Mineralogie, | mit Hinsicht auf die neuesten | Entdeckungen, | herausgegeben | von | Carl Caesar Leonhard, | [...4 lines of titles and memberships...] | [rule] | Erster Jahrgang. | [rule] | Mit Kupfern und Karten. |

[tapered rule] | Frankfurt am Main, 1807. | Bei Johann Christian Hermann.

28 vols. Vol. 1 (1807) to Vol. 28 (1829).

RARE. Popularly known as "Leonhard's Taschenbuch," this periodical devoted to mineralogy and the earth sciences was a rare mix of articles from the professional and amateur alike. It ran from 1807 to 1829, and its volumes included interesting travel reports from corresponding mineral collectors, summaries of recent mineral analyses, reports on mineral localities, reviews and descriptions of important public and private mineral collections, obituaries and death notices of mineral people, and advertisements regarding mineral specimens and collections for sale. It is one of the great mineralogical compendiums of the early nineteenth century, with a great deal of interest to the historian of mineralogy and earth science. In 1830, the periodical was renamed and published in a larger format under the more wide ranging title, *Jahrbuch für Mineralogie, Geognosie, Geologie und Petrefaktenkunde*. Then from 1833 to 1862 it appeared as *Neues Jahrbuch für Mineralogie, etc.* It remains today one of the foremost German scientific journals devoted to the earth sciences, including mineralogy. For further information please see the entry under *Neues Jahrbuch für Mineralogie*.

REFERENCES: Bolton, *Catalogue of Periodicals*, 1897. • Bolton, *Catalogue of Periodicals*, 1897: no. 4416. • Graesse, *Trésor de Livres Rares*, 1859-69: 4, 166. • NUC. • *Union List of Serials*. • *USGS Library Catalog*.

**TAUBE, Daniel Johann.** (BORN: 1727; DIED: 1799) *German physician.*

Taube, a pupil of Haller, was physician to the British court and to the court of Brunswick-Lüneburg.

REFERENCES: ADB. • Baur, *Allgemeines historisches Handwörterbuch*, 1803. • DBA: I 1257, 172-173. • Meusel, *Verstorbenen Deutschen Schriftsteller*, 1802-16. • WBI.

**4593. — German, 1766-9.**

Beiträge zur Naturkunde des Herzogthums Zelle [Vol. II: Lüneburg]. Zelle, Johann Dieterich Schulze, 1766-9.

2 vols. 8°: 264 p.

RARE. A collection of essays on the natural history of the duchies of Celle and Lüneburg, most of them dealing with the geology and mineralogy of the region. There is a chapter "De Färbe-Quelle bei Wense" (pp. 234-36) that describes a well that was used for dyeing purposes for a very long time. Taube gives an account of the procedure of dyeing thread in the water of this well and then provides a chemical analysis of the water.

REFERENCES: BL: [954.a.1.]. • LKG: XIV 148.

**TAUBER, Andreas.** *German mineralogist.*

**4594. — German, 1799.**

Der Plauische Grund bei Dresden, mit Hinsicht auf Naturgeschichte und schöne Gartenkunst. Herausgegeben von W.G. Becker, mit fünf und zwanzig Kupferblättern. Nürnberg, Frauenholzischen Kunsthandlung, 1799.

2 parts. 2<sup>o</sup>: x, [2], 128 p.; [4], 120 p., one folding map, 16 full-page engraved views of the "Plausiche Grund," and 8 hand-colored plates.

**RARE.** This splendid publication, ranking among the finest produced in eighteenth century Nürnberg, was edited by Wilhelm Gottlieb Becker. It describes the landscape gardens and the natural history of the beautiful "Plausiche Grund," a rural valley located near Dresden in Saxony. It was published in two parts the first being illustrated with 16 very fine views of the gardens engraved by Darnstedt after drawings made by the famous Johann Christian Klengel [1751-1824] and Friedrich Adam Oeser [1717-1799]. The rare second part describes the natural history of the area including in the botanical section a catalog of the wild plants (pp. 45-94) by Frederick Traugott Pursch. Another section by Andreas Tauber describes the mineralogy of the valley, which is enhanced by four splendid hand-colored engraved plates. At the end is a catalog of insects prepared by Ludwig Heinrich Freiherrn von Block [1764- ] that is also illustrated on four superb hand-colored plates.

*Contents:* T. 1.: Der Plausiche Grund bei Dresden. T. 2.: I. Mineralogische Beschreibung des Plausichen Grundes bis Tharand, von Andreas Tauber. II. Verzeichnis der im Plausichen Grunde ... wildwachsenden Pflanzen, von Friedrich Traugott Pursch. III. Verzeichnis der merkwürdigsten Insekten welche im Plausichen Grunde gefunden werden von Ludwig Heinrich Freiherrn von Block.

**Frederick Pursh.** (BORN: 1774; DIED: 1820) *German/American botanist.* Pursch came to the United States in 1799 and changed his name to Frederick Pursh. He authored the *Flora Americæ Septentrionalis* (London, 1814), considered the first complete work on the flora of America north of Mexico.

**Wilhelm Gottlieb Becker.** (BORN: 1753; DIED: 1820) *German historian.*

[ BIOGRAPHY NEEDED ]

REFERENCES: Pritzel, *Thesaurus Literaturæ Botanicae*, 1871-3: no. 7369. • Stafleu & Cowan, *Taxonomic Literature*, 1976-88: no. 8403. • Ward & Carozzi, *Geology Emerging*, 1984: no. 160. (Pursch) ABA: I 1315, 286-290; II 490, 191. • Appleton *Cyclopedia of American Biography*. • DAB: 15, 271. • Drake, *Dictionary of American Biography*, 1872. • Ewan, J.A., "Frederick Pursh, 1774-1820, and his botanical associates," *Proceedings of the American Philosophical Society*, 96 (1952), 599-628. • *National Cyclopedia of American Biography*. • WBI. (Becker) ADB. • DBA: I 72,167-184. • Eckstein, *Nomenclator philologorum*, 1871. • Hamberger & Meusel, *Gelehrte Teutschland*, 1796-1834. • Haymann, C.J.G., *Dresdens Theils Neuerlich Gestorbene, Theils jetzt lebende Schriftsteller und Künstler*. Dresden, 1809. • Lange, E., *Modetänze um 1800 in Becker's Taschenbüchern 1791-1827 und ihr Einfluss auf die Volkstanzpraxis des 19. und 20. Jahrhunderts in Niederdeutschland*. Herausgegeben von Elfriede und Karl-Heinz Lange, mit Beiträgen von Roswitha Busch-Hofer und Volker Klotzsche. Berlin, Deutscher Bundesverband Tanz, 1984. 132 p., illus. • WBI.

**TENNANT, James.** (BORN: Lipton near Southwell, Nottingham, England, 8 February 1808; DIED: London, England, 23 February 1881) *English mineralogist & geologist.*

REFERENCES: Allibone, *Dictionary of English Literature*,

1859-71. • *American Journal of Science*: 3rd Series, 21 (1881), 338. • Barr, *Index to Biographical Fragments*, 1973: 258. • BBA: I 1070, 379-383; II 1797, 262-263. • Boase, *Modern English Biography*, 1892-1921. • Cleavelly, *World Palaeontological Collections*, 1983: 285. • DNB. • *Geological Magazine*: 8 (1881), December 2, 238-9. • Lambrecht & Quenstedt, *Catalogus*, 1938: 425. • *Proceedings of the Geological Society, London*: 1881-2, 48-9. • *Quarterly Journal of Geological Society of London*: 38 (1882), 48-9. • Sarjeant, *Geologists*, 1980: 3, 2249. • WBI.

Geology, mineralogy, and crystallography. By ... D.T. Ansted ... Prof. Tennant ... and W. Mitchell. (London, 1855).

See: Ansted, David Thomas.

#### 4595. — English, 1856.

Mineralogy and Crystallography being a Classification of Crystals according to Form, an Arrangement after Chemical Composition. London, Charles Griffin, 1856.

8<sup>o</sup>: iv, 290-587 p., 396 illus., diagrams, tables.

**SCARCE.** The strange pagination arises from this work originally being published and abstracted from *Inorganic Nature*, vols. X-XVIII.

A reissue with a new title page, of one of the treatises contained in vol. 5, of "Orr's Circle of the Sciences."

**Related work, 1858:** *Catalogue of Fossils found in the British Isles, forming the private collection of James Tennant*. London, 1858. 12<sup>o</sup>. [BL, 7105.a.35.]

REFERENCES: BL: [8707.d.31.]. • NUC: 586, 344-5 [NT 0092572].

#### 4596. — English, 1860.

[Contained within a single rule border:] Mineralogy and Crystallography: | being | A Classification Of Crystals, | according to their form; | and | An Arrangement Of Minerals, | after their chemical composition. | By | [Authors printed in two columns:] Professor Tennant, F.G.S., | [... 3 lines of titles and memberships...] | Rev. Walter Mitchell, M.A., | [... 3 lines of titles and memberships...] | London adn Glasgow: | Richard Griffin and Company, | Publishers to the University of Glasgow. | 1860.

8<sup>o</sup>: [i]-iv, 290-587, [1] p., 396 illus., diagrams, tables.

CONTENTS: [i-ii], Title page, verso blank.; [iii]-iv, "Introductory Notice."—dated January 1856.; [289]-556, Text.; [557]-587, "Index | To | Crystallography And Mineralogy."; [1 pg], Blank.

**SCARCE.** Reissue of the 1856 edition with a new title page.

REFERENCES: BL: [no copy listed]. • NUC: 586, 344-5 [NT 0092574].

**TENNE, Conrad Friedrich August.** (BORN: Hildesheim, Germany, 15 October 1853; DIED: Bad Nauheim, Germany, 8 July 1901) *German mineralogist.*

Tenne studied at the University of Göttingen, becoming an assistant at the Mineral Institute in 1877. In 1882 he went to Heidelberg and in 1883, Tenne was appointed Custos at the mineralogical-petrographical

## TERIAEV

Institute and professor of mineralogy at the University of Berlin.

REFERENCES: *Centralblatt für Mineralogie*: 1902, p. 662-3. • Poggendorff: 4, 1484.

### 4597. — German, 1878.

Krystallographische Untersuchung einiger organischer Verbindungen mit eine Tafeln ... Von C.A. Tenne ... Inaugural-Dissertation. Göttingen, Druck von E.A. Huth, 1878.

8°: 28 p., one folding plate. Crystallographic examination of an organic compound. RARE.

REFERENCES: BL: [no copy listed]. • BMC: 5, 2083. • NUC: 586, 352 [NT 0092742].

### 4598. — German, 1902.

Die Mineralfundstätten der Iberischen Halbinsel von Prof. Dr. Tenne, Berlin, und Prof. Dr. Calderón, Madrid. Berlin, A. Asher & Co., 1902.

8°: xii, 348, iii p. "Literatur," p. [vi]-xii.

RARE. Co-authored with SALVADOR CALDERÓN and edited by CARL KLEIN. The important 1910 work of Calderón on the mineralogy of the Spanish peninsula was preceded by his efforts to help Professor Tenne in *Die Mineralfundstätten der Iberischen Halbinsel* (Berlin, 1902), the first major attempt to describe the minerals of Spain and Portugal. Based on the writings of Naumann, the volume classifies and describes the important minerals that are known to occur in the peninsula together with their properties. In compiling the work, Tenne relied heavily on the extensive mineral collection, library and expertise of Calderón, who specialized in the mineralogy of the Iberian peninsula. However, Tenne did not live to see the work completed, and the responsibility for organizing the notes and bringing the work to press was given to his friend and associate, Carl Klein. As an appendix, Klein has added a three page tribute to Tenne and his work.

REFERENCES: BL: [07107.i.18.]. • *Centralblatt für Mineralogie*: 1902, 662-3. • *Katalog Bergakademie Freiberg*, 1879: Suppl. 2, p. 123. • NUC: 586, 352 [NT 0092741].

### TEOFRASTO.

See: Theophrastus.

**TERIAEV, Andrei Mikhailovich.** (BORN: 1767; DIED: 1827) *Russian naturalist & mineralogist.*

From 1789, Teriaev was a teacher of natural sciences in St. Petersburg. In 1804, he was appointed professor of the pedagogical Institute, and in 1809 professor of medicine at the Academy of St. Petersburg. He authored books on mineralogy, botany, zoology, and made improvements to the teaching of these subjects.

REFERENCES: *Entsiklopedicheskii Slovar Biografi*: 65, 96. • Sedletskii, I.D., "[Outstanding Russian scientist A.M. Teriaev and first history of mineralogy.], *Vestn Akad Med Nauk SSSR*, 6 (June, 1950), 94-8. • Zvorykin, *Biograficheskii Slovar*, 1958: 2, p. 266.

### 4599. — Russian, 1796.

Краткое Разсуждение | О | Минералогии | Вообще, | О перемѣнахъ и приращеніи во всѣхъ часяхъ оной, | съ присовокупленіемъ нако- | нецъ главнаго основанія |

## КРАТКОЕ РАЗСУЖДЕНИЕ

О

## МИНЕРАЛОГИИ

ВООБЩЕ,

О перемѣнахъ и приращеніи  
во всѣхъ часяхъ оной,  
съ присовокупленіемъ нако-  
нецъ главнаго основанія  
новѣйшей Минералогиче-  
ской системы,

сочиненное

АНДРЕЕМЪ ТЕРЯЕВЫМЪ,

Натуральной Исторіи Магистромъ и  
Санктпетербургскаго Вольнаго  
Экономическаго Общества  
Членомъ.

ВЪ САНКТПЕТЕРБУРГѢ 1796 года.

Печатано у Федора Брункова, содержащая Типо-  
графіи Коммисіи объ учрежденіи Училищъ.

KRATKOE RAZSUZHDENIE O MINERALOGII, 1796

новѣйшей Минералогиче- | ской системы,  
| сочиненное Андреемъ Теряевымъ, | Нату-  
ральной Исторіи Магистромъ и | Санктпетер-  
бургскаго Вольнаго | Экономическаго Об-  
щества | Членомъ. | [rule] | Въ Санктпетер-  
бургѢ 1796 года. | Печатано у Федора Брун-  
кова, содержащая Типо- | графіи Коммисіи  
объ учрежденіи Училищъ.

[TRANSLITERATED TITLE:]

Kratkoe Razsuzhdenie | O | Mineralogii | Voob-  
shche, | O peremenakh i prirashchenii vo vseh  
chasshiakh onoï, | s prisovokupleniem nako- | nets  
glavnago osnovaniia | noveishei Mineralogiche- |  
skoï sisshemy, | sochinennoe Andreem Teriaevym,  
| Natural'noi Istorii Magistrom i | Sanktpeter-  
burgskago Vol'nago | Ekonomicheskago Obshch-  
estva | Chlenom. | [rule] | V Sanktpeterburge  
1796 goda. | Pechashano u Fedora Brunkova,  
soderzhashsliia Tipo- | grafii Kommissii ob uchrezh-  
denii Uchilshch.

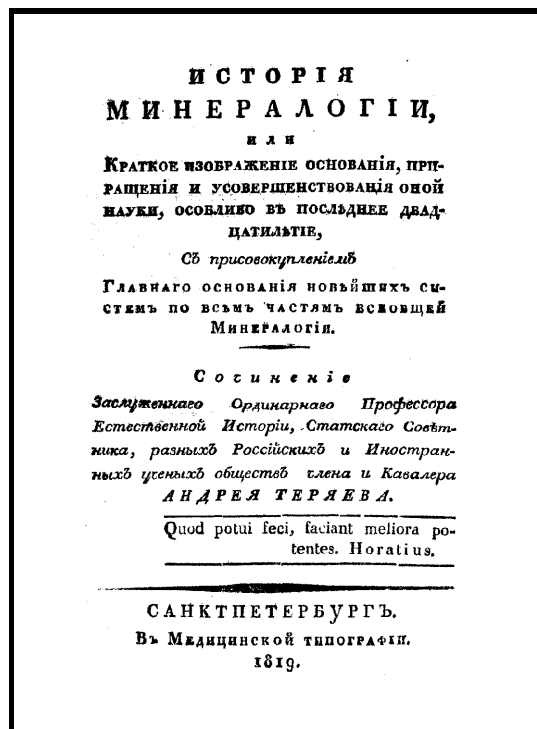
8°: π<sup>4</sup> A<sup>8</sup> B<sup>8</sup> Γ<sup>8</sup>; 36ℓ.; [8], [1]-64 p. PAGE  
SIZE: 205 x 122 mm.

CONTENTS: [2 pgs], Title page, verso blank.; [1 pg],  
Dedication.; [1 pg], Blank.; [2 pgs], "Милостивый  
Государь!"—signed Андреи Теряевы.; [2 pgs], "Вмѣсто  
Предисловія."; [1]-43, "О Минералогіи Боовше."  
[Text, being general descriptions and preliminaries].; [44]-  
64, "Таблица Минераловъ | Или | Главное

Основаніе | Новѣйшей Минералогической | Системы." [Description of mineral species?].

VERY RARE. This short work provides an introduction to mineralogical science, providing information on the latest discoveries and emphasizing economic aspects.

REFERENCES: Dryander, *Catalogus Banks*, 1796-1800: 4, p. 14. • LKG: XII 146. • Sopikov, *Essay in Russian Bibliography*, 1904-8: no. 9586. • *Svodnyi Katalog Russkoĭ Knigi*: no. 7201.



ISTORIA MINERALOGIA, 1819

4600. — Russian, 1819 [History].

История Минералогіи. St. Petersburg, 1819.

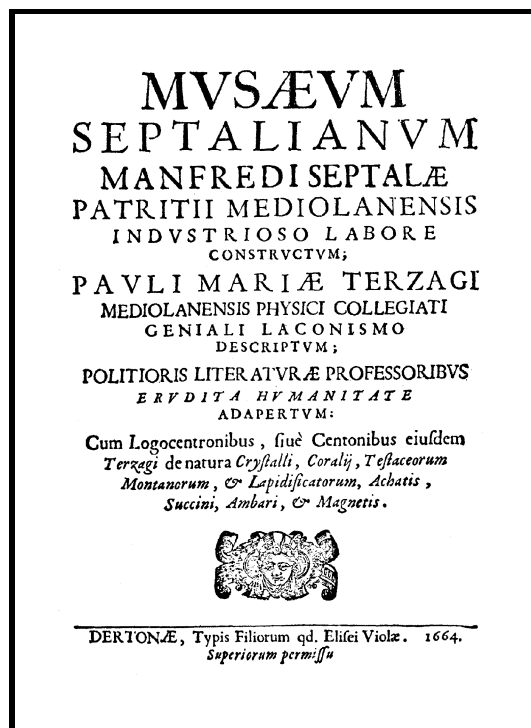
8°: π<sup>12</sup> 1-28<sup>4</sup> [tables] χ<sup>3</sup>; 127ℓ.; [8], I-XIX, [1], [1]-224, [6] p., 3 folding tables. PAGE SIZE: 208 x 125 mm.

CONTENTS: [2 pgs], Title page, verso publication notice dated 1818.; [6 pgs], Dedication.; I-XIX, "Предисловіе" [=preface—signed Андреи Терзавы]; [1 pg], Contents.; [1]-224, Text.; [3 folding tables]; [5 pgs], "Имена осовъ, благоволившихъ ..."; [1 pg], "Погрѣшности."

EXTREMELY RARE. This early history of mineralogy provides a short description of the beginnings of the study, followed by discussions of the growth and development of the science, especially in the first two decades of the nineteenth century. The author has also included descriptions of the latest discoveries in theoretical and practical mineralogy.

REFERENCES: BL: [no copy listed]. • NUC: [no copy listed]. • Povarennykh, *Definition of Mineral*, 1964. • Sedletskii, I.D., "[Outstanding Russian scientist A.M.

Teriaev and first history of mineralogy.], *Vestn Akad Med Nauk SSSR*, 6 (June, 1950), 94-8.



MVSÆVM SEPTALIANVM, 1664

TERZAGO, Paolo Maria. (BORN: ; DIED: 1695) *Italian physician.*

Physicus in Milan, Italy.

REFERENCES: ABI: I 946, 306-314. • Jöcher, *Gelehrten-Lexikon*, 1750-51: 4, col. 1068. • Jöcher, *Gelehrten-Lexikon, Supplement*. • Poggendorff: 2, cols. 1082-3 & 1442. • WBI.

4601. — Latin, 1664 [Collection catalog].

Mvsævm | Septalianvm | Manfredi Septalæ | Patritii Mediolanensis | Indvstrioso Labore | Constrvctvm; | Pavli Mariæ Terzagi | Mediolanensis Physici Collegiati | Geniali Laconismo | Descriptvm; | Politioris Literatvræ Professoribvs | Ervdita Hvmanitate | Adapertvm: | Cum Logocentronibus, siuè Centonibus eiusdem | Terzagi de natura Crystalli, Coralij, Testaceorum | Montanorum, & Lapidificatorum, Achatis, | Succini, Ambari, & Magnetis. | [ornament] | [rule] | Dertonæ, Typis Filiorum qd. Elisei Violæ. 1664. | Superiorum permissu.

4°: ✠<sup>4</sup> A-V<sup>8</sup> X<sup>4</sup> (X4 blank); 168ℓ.; [8], 324, [4] p., index, coat of arms. Engraved frontispiece showing the museum's interior.

RARE. Paulo Maria Terzago wrote this description of the museum formed by Lodovico Settala, a physician of Milan, and his son, Manfredo, a Canon

## THE GRETE HERBALL

of the Cathedral. It describes their collections of both artificial and natural curiosities, including plants, seeds, fruits, stuffed animals, minerals, fossils, shells, medals, intaglios, cameos, chemical preparations, various scientific instruments, and articles made of glass and metal. Based upon the beautiful engraved frontispiece depicting the the interior of the museum, the gallery consisted of 3 rooms stuffed with all manner of curiosities. Display cases set upon tables lined the walls with space taken up underneath by a variety of vases and urns. The walls above the cases held various pictures while the tops of the displays were packed with various instruments and clocks. Hanging from the ceiling are the required taxidermy, including a crocodile, various fish, and birds. A large elephant tusk greets visitors near the entrance to the middle gallery. It was Manfredo Settala's wish that upon his death, the museum would be deposited in the Ambrosian Library of Milan, but the arrangement fell through and the collection was dispersed (Murray).

REFERENCES: BL: [956.c.30.]. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 279. • Murray, *Museums*, 1904: 1, 87 & 3, 171. • NUC: 587, 436 [NT 0110345].

**4602. Italian transl., 1666:** Museo | ò | Galeria | Adunata dal sapere, e dallo studio | Del Sig. Canonico | Manfredo Settala | Nobile Milanese. | Descritta in Latino del Sig. Dott. Fis. Coll. | Paolo Maria Terzagio | Et hora in Italiano dal Sig. | Pietro Francesco Scarabelli | Dot. Fis. Di Voghera | E dal medemo accresciuta | [ornament] | In Tortona, | [rule] | Per li Figliuoli del qd. Eliseo Viola. MDCLXVI. | Con licenza de'Superiori.

4<sup>o</sup>: 408 p., 3 plates (one double), frontispiece (portrait). PAGE SIZE: 200 x 150 mm.

RARE. Translation by Pietro Francesco Scarabelli of *Musæum Septalianum* (Dertonæ, 1664). The text is divided into 67 chapters. Descriptions are of wide range of objects typically contained in a 'Wunderkammer' of the 17th century. Details are provided of various kinds of mirrors, lenses, optical glasses, binoculars, mathematical instruments, different clocks, perpetual motion machines, sun dials, lunar clocks, various kinds of corals, crystal, amber, shells, snails, nautilus, petrified things, various types of minerals, precious and semi-precious gems, magnets, thunderstones, cameos and onyxes, finger rings, agates, urns, lamps, various porcelains, foreign fruits, bezoar stones, unicorn and rhinoceros horns, teeth of various animals, odd fish, mummies, types of birds, exotic feathers, weapons of various countries, vases made of different materials, jars, boxes, lathe-work, various statues, types of oils and salts, asbestos, books and maps, foreign drugs, portraits of saints, doctors and scholars, medals, recent coins, etc. An index to the objects closes the work.

**Variant issue:** Another issue is known identical to this title except that the year printed on the title page is 1667.

**Paolo Francesco Scarabelli.** (BORN: ; DIED: )  
*Italian physician.*

[  
[ BIOGRAPHY NEEDED ]  
]

REFERENCES: Balsiger, *Kunst und Wunderkammern*, 1970: 387-92. • BL: [956.h.30.]. • BM/STC *Italian*. • *Freilich Sale Catalog*: no. 523. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 279. • Murray, *Museums*, 1904: 1, 87 & 3, 171. • NUC: 587, 436 [NT 0110346]. (Scarabelli) ABI: I 895, 117-119. • Jöcher, *Gelehrten-Lexikon, Supplement*. • WBI.

**4603. Translation, 2nd edition?, 1677:** Museo, ò Galeria | Adunata dal sapere, e dallo studio | Del Sig. Canonico | Manfredo Settala | Nobile Milanese. | Descritta in Latino dal Sig. Dott. Fis. Colleg. | Paolo Maria Terzagio. | Et poi

in Italiano dal Sig. | Pietro Francesco Scarabelli | Dottor Fisico di Voghera, & dal medemo accresciuta. | Et hora ristampata con. l'Aggiunta di direrse cose poste nel fine | de medemi Capi dell'Opra. | Dedicata | All' Illvstrissimo, E Réverendissimo | Monsignor | Carlo Settala | Vescovo Di Tortona, | Marchese, E Conte, &c. | [ornament] | In Tortona, | [rule] | Per Nicolò, e Fratelli Viola. Con licenza de'Dsuperiori.

4<sup>o</sup>: Published in 1677. VERY RARE.

REFERENCES: BL: [1044.c.30.].

## THE GRETE HERBALL.

See: Arbolayre (or Grant Herbier).

## THEOPHILUS, (pseudo.) Jakob Hertel.

### 4604. — German & Latin, 1706.

Mineralogia, | Oder | Chymischer Schlüssel/ | Das ist: | Kurtzer Bericht/ wie man aller | Metallen und Mineralien Natur und | Eigenschafft auff das leichteste erkundigen | und erforschen solle; | Auch wird ein naher Weg zu | dem Universal zu gelangen gewiesen | und dargethan; | Zuletzt | Wird das spargirte Rätzel: | Ich bin weder Geschöpf noch ein Schöpffer &c. | Auff Philosophische Art deutlich erkläret/ | Vorgestellet von | Theophilo. | [ornate rule] | Franckfurt/ | In Verlegung Joh. Ziegers/ | Buchhändler in Nürnberg. | [rule] | Anno 1706.

8<sup>o</sup>: 464 p. Text in German and Latin.

RARE. Perhaps the same work attributed to Iren Faust by Gatterer and LKG. With an epistle by G. W. Wedelins.

REFERENCES: BL: [1036.b.4.]. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 24. • LKG: XII 10 & XVI 27b.

## THEOPHRASTUS. (BORN: Ereos, Island of Lesbos, Greece, c371 B.C.; DIED: Athens, Greece, 287 B.C.) *Greek philosopher.*

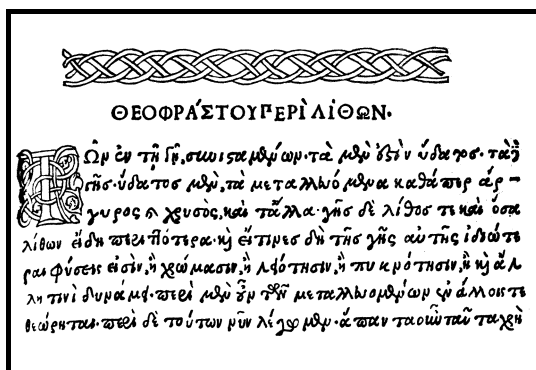
Theophrastus studied at Athens and became an ardent supporter of Plato's philosophies. While there, he became a pupil and friend of ARISTOTLE, and when Aristotle went into exile, Theophrastus succeeded him as the leader and principal spokesman of the Peripatetic school of philosophy—a leadership he held until his death.

REFERENCES: Drugulin, *Sechstausend Portraits*, 1863: no. 5455. • DSB: 13, 328-34 [by J.B. McDiarmid]. • *Encyclopaedia Britannica*, 11th edition. • *ISIS*, 1913-65: 2, 537-8. • Lambrecht & Quenstedt, *Catalogus*, 1938: 427. • *Nouvelle Biographie Générale* (Hofer): 45, cols. 103-6. • Poggendorff: 2, cols. 1091-2. • Sarjeant, *Geologists*, 1980: 3, 2254 & Suppl. 1 (1991), 2, 829. • Schaedler, *Biographisch Handwörterbuch*, 1891: 133-4. • *World Who's Who in Science*: 1662.

### 4605. — Greek, 1495-8 [First edition].

Aristotle's Opera Omnia, in Greek, including other works by Theophrastus, Galen, Philo Judaeus, Alexander Aphrodisiensis and other authors. Edited by Aldus Manutius, Thomas Linacre, Justin Decadyos, Gabriel Bracius and others. Venice, Aldus Manutius, 1 November 1495 to June, 1498.

5 vols. [VOL 1: 1 November 1495] 2<sup>o</sup>: [VOL 2: February 1497] 2<sup>o</sup>: [VOL 3: 29 January 1497] 2<sup>o</sup>: [VOL 4: 1 June 1497] 2<sup>o</sup>: [VOL 5: June 1498] 2<sup>o</sup>:



START OF THEOPHRASTUS' PERI LITHON, 1497

VERY SCARCE. EDITIO PRINCEPS of Aristotle and Theophrastus and all other texts included. Theophrastus' Περὶ Λιθῶν (=Peri Lithon, or about stones) appears in volume 2 on leaves 254-60. It is a work of special interest in the history of mineralogy as it is the largest fragment to survive from Classical times that treats mineral substances in a meaningful way. It is like no other mineralogical work written during the period, and in fact no other original work resembling it appeared until the Middle Ages. It remained for 1800 years one of the most authoritative treatise on minerals, referenced and quoted by writers down to modern times. The comparative absence from myth and magic in the descriptions is particularly noteworthy, and shows there existed, probably among miners, quarryman, and others engaged in the mining industry of the time, a practical knowledge of mineralogy, which Theophrastus drew upon in the compilation of this work.

The text, written as a series of 69 paragraphs, suggests the *Peri Lithon* to be a series of lecture notes rather than a formal treatise (Adams, 1934). Some passages contain obvious additions that appear to be notes appended to the more detailed information. It seems possible, therefore, that *Peri Lithon* is a set of lecture notes as the author would have delivered in the gardens of the Lyceum almost two millennia ago. Incredibly, the text of the treatise appears to have come down to the present little changed from what it was in the beginning. All surviving ancient works, have made their way through time by a tradition of manuscript copying. Invariably, as scribes copied manuscripts, mistakes were unwittingly introduced. The fact that this work exists in a relatively few manuscripts that when compared show few differences, suggests that *Peri Lithon* is probably very close to what Theophrastus originally wrote.

The text first gives a Peripatetic view of the origin of minerals and stones, and upon this foundation of Aristotle and Plato, modifications are introduced. Metals are said to be composed of water, while stones and mineral earths are composed of earth. A mineral occurs because its substance has been purified through filtration, and its degree of purity

can be determined by examining such qualities as smoothness, density, luster and transparency. The primary interest in the work are the descriptions of specific minerals. Theophrastus divides into two broad categories, Earths and Stones, under which about fifty "species" are recognized. Within each commentary, the author recounts various physical characteristics such as texture, color, transparency, hardness, luster, and density, as well as the practical uses. Thus described, it is possible to apply modern names to many of the minerals Theophrastus wrote about eighteen centuries ago, and read the Classical ideas about marble, pumice, onyx, gypsum, amber, pyrite, coal, azurite, chrysocolla, realgar, orpiment, cinnabar, quartz, lapis lazuli, emerald, sapphire, ruby and diamond.

By recording the properties of the species, this early work set a high standard over other mineralogical writings of the period. Theophrastus is in fact the first investigator to methodically treat mineral substances for themselves rather than for their magical or curative properties, and he may be considered the best and most accurate mineralogist among the ancients.

The Aldine Aristotle as this edition is known was the largest venture of Greek printing in the incunabula period of the fifteenth century, and the first major item of Aldus' program to publish Greek literature in the original language. These five volumes include all the then-known works attributed to Aristotle and his most outstanding pupil, Theophrastus, together with other texts associated with the Aristotelian corpus. Taken together with the Aldus edition of Aristotle's *Rhetoric* and *Poetics* of 1508 and Theophrastus' *Characters* of 1527, this EDITIO PRINCEPS determined the text of these two authors until the nineteenth century. In preparing this edition, Aldus relied upon Greek manuscripts provided by Greek scholars throughout Italy; a number of these sources survive and form the basis of Sicherl's (1976) study outlining how this edition was edited. In addition, a study by Baker (1992) describes two of the Greek typefaces used to set the text.

NOTES: [1] Aristotle founded in 335 B.C. a new school in the Lyceum, near Athens. It would seem that the teaching was imparted in the gardens while master and pupils were walking together, hence the name, Peripatetic school, meaning to walk around or about. Although the school lasted only until the third century after Christ, its influence was such that it is impossible to outline the history of science without its mention. The basis of their view of the world was that all physical things were made from combinations of the four different elements: air, earth, water and fire.

REFERENCES: Barker, N., *Aldus Manutius and the Development of Greek Script and Type in the Fifteenth Century*. New York, 1992: [chapters 6 & 7]. • BL. • BMC XV: 5, 553, 555, 556 & 558. • Caley & Richards, *Theophrastus*, 1956: p. 5 & 11. • Copinger, *Hain's Repertorium, Supplement*, 1898-1902: 16578\*. • Dana's 7th (Bibliography): 81. • Dibner, *Heralds of Science*, 1955: 73. • Freilich Sale Catalog: no. 27. • Goff: A-959. • GW: 2334. • Hain, *Repertorium Bibliographicum*, 1826-38: \*1657. • Hoover Collection: no. 785. • Klebs, *Incunabula Scientifica*, 1938: no. 83.1. • Norman Catalog: 1, 70. • Osler, *Bibliotheca*

## THEOPHRASTUS

*Osleriana*, 1969: no. 229. • PPM: *Printing and the Mind of Man*: no. 38. • Sicherl, M., *Handschriftliche Vorlagen der Editio Princeps des Aristoteles*. Mainz, 1976. • Stillwell, *Awakening Interest in Science*, 1970: A-858. • Wellcome Catalog (Books): no. 414.

**4606. 2nd Greek edition, 1552:** [IN GREEK: Theophrastou Peri phyton historian kai peri phyton aition, kai tina alla autou biblia periechon tomos VI]. = Theophrasti Historiam de plantis, et De causis plantarum, et quosdam alios ipsius libros continens tomos VI. Et repetita in editione Venetiis, Aldi filii, 1552.

8<sup>o</sup>: \*\*7 Αα-Ζψ<sup>8</sup> ΑΑαα-SSσσ<sup>8</sup>; 334ℓ.; [14], [1]-652, [4] p. Woodcuts: initials, printer's device (Aldine anchor) on the title page.

RARE. Reprint of the 1497 edition, Theophrastus' *Treatise on Stones* is in Tome II, pp. 569-582. The Greek text was edited by Federicus Turrisanus [?-1561]. This book forms volume 6 of *Aristoteles [et Theophrasti] Opera omnia graece studio Joannis Baptistae Camotii*, which was printed by Giovanni Battista Camozzi (Camotius) [1515-1581] at the Aldine Press from 1551-53. This volume contains only works authored by Theophrastus and includes the following titles: *Theophrasti vita ex Diogene* – *De historia plantarum* – *De causis plantarum* – *De igni* – *De sensibus* – *De ventis* – *De piscibus* – *De vertiginibus* – *De odoribus* – *De sudoribus* – *De lapidibus* – *De signis aquarum* ... – *Methaphysices* – *Characterum* – *Philonis de mundo*.

REFERENCES: Adams, *Cambridge Books*, 1967: A-1733. • Barker, N., *Aldus Manutius and the Development of Greek Script and Type in the Fifteenth Century*. New York, 1992. • BL: [C.19.b.11-16.]. • BM/STC *Italian*: p. 42. • Caley & Richards, *Theophrastus*, 1956: p. 11. • Dryander, *Catalogus Banks*, 1796-1800: 4, p. 6. • Hoover Collection: no. 785. • NUC: 589, 383-94 [NT 0142412]. • Renouard, A.A., *Annales de l'Imprimerie des Alde, ou, Histoire des trois Manuce et de leurs éditions*. New Castle, Del., Oak Knoll Books, 1991. xvi, 582, lxvi p. [Reprint of 1834 original; ISBN: 0938768271.]: 150, 5. • VD16: p. 207 [\*108.218].

**4607. 3rd Greek edition, 1577:** ΘΕΟΦΡΑΣΤΟΥ | ΠΕΡΙ | ΛΙΘΩΝ. | Theophrasti Lib. | De Lapidibus. | [ornament] | [...one line in Greek...] | Lvtetiae. | Ex Officina Federici Morelli Typographi Reij. | M. D. LXXVII.

4<sup>o</sup>: [1]-15, [1] p. Printer's mark on title page (Renouard 471).

CONTENTS: [1-2], Title page, verso blank. [3]-15, Text (in Greek); [1 pg], Blank.

RARE. Text in Greek.

**Frederic Morel.** (BORN: Champagne, France, 1523; DIED: Paris, France, 1583) *French publisher*. Frederic (not Frédéric) Morel, surnamed the Elder, was of a noble family. About 1550 he married the daughter of the famous printer, Michel de Vascosan, in 1557 he set up in business in the rue Saint Jean de Beauvais, and in 1571 was appointed printer to the King. His chief publications were the *Declamaciones de Quintilian* and *L'Architecture de Philibert Del orme* and Greek and Latin texts of Theophrastus' works.

REFERENCES: BL: [726.d.1.(1.)]. • Caley & Richards, *Theophrastus*, 1956: p. 5 & 11. • Dryander, *Catalogus Banks*, 1796-1800: 4, p. 6. • Dumoulin, *Vie et Oeuvres de Frédéric Morel*, 1901: no. 294. • Hoffmann, *Lexicon Litteraturae Graecae*, 1838-45: 3, 529. • LKG: III 2. • NUC: 589, 383-94 [NT 0142521]. • Renouard, *Imprimeurs Parisiens*, 1898: no. 471. (Morel) ABF: I 763, 246-252. • *Biographie Universelle*. • Dezobry, *Dictionnaire de Biographie*, 1889. • Dumoulin, *Vie et Oeuvres de Frédéric Morel*, 1901. • *Encyclopaedia Britannica*, 11th edition. • Le Moyne, Nicolas Toussaint., *Les siècles littéraires de la France*. Paris, 1800-3. 4 vols. [Reprinted, Genève, Slatkine, 1971.]. • Letillois, de Mézières., *Biographie générale des Champenois célèbres, morts et vivants précédée des Illustres Champenois, poème lyrique, et enrichie de plusieurs tables chronologiques*. Paris, Bur. des Journal des peintres, 1836. 227 p. • *Nouvelle Biographie Générale* (Hoefer). • *Nouvelle Biographie Générale* (Hoefer). • WBI.

## Latin editions

**4608. First Latin edition, 1541:** ΘΕΟΦΡΑΣΤΟΥ | ΤΟΥ ΠΑΤ-ΩΝΟΣ ΜΕΝΙΠ- | ΤΙΝ, ΕΙΤΑ ΔΕ ΑΡΙΣΤΟΤΕΛΕΩΣ ΝΑΘΗΤΟΥ | [...one line in Greek...] | Theophrasti | Primvm Quidem Platonis, Mox Aristo | telis quoque discipuli, & in Philosophiae professione successoris, | omnium uero Philosophorum, M. Tullij quoq; testimonio, ele- | gantissimi atq; eruditissimi, Opera, quae quidem à tot saeculis | adhuc restant, omnia: summo studio | Partim hinc inde conquisita, atq; in unum ueluti corpus nunc pri- | mum redacta: partim à multis quibus etiam hactenus acatebant men | dis, doctorum uirorum industria ac meliorum exem- | plarium ope repurgata. | Eorvm Tvm Praetantiam, Tvm Singvlo- | rum rationem ac ordinem, ex Praefatione, & subjecto eidem Ca- | talogo abunde cognosces. | Cum Cæsareæ Maiest. & Christiansis. Galliarum Regis | gratia ac priuilegio ad septennium. | Basileæ.

2<sup>o</sup>: [16], [1]-291 p. PAGE SIZE: 310 x 205 mm.

RARE. First sixteenth century edition printed in Basil by J. Oporinus [see note below] of the Theophrastus' works, only preceded by the Aldine incunabula of 1498. Several variant issues exist which have the Latin preface of the doctor and philologist Jerome Gemusaeus [1505-1543] substituted for the preface authored by the doctor and botanist Joachim II Camerius [1534-1598]. Among the various treatises included with in this work are *Plantarum historia*, *De plantarum causis*, *Aristotelis de Plantis*, *De lapidibus* (pp. 215-220), *De piscibus*, *De igne*, *De signis*, *De odoribus*, *De ventis*, *De sudoribus*. Also present is the *Characteres Morales*, which would inspire the French moralist Jean de La Bruyere [1645-1696] in the seventeenth century.

**Jean Oporinus.** (BORN: 1507; DIED: 1568) *French Printer*.

[  
[ BIOGRAPHY NEEDED ]  
]

REFERENCES: Adams, *Cambridge Books*, 1967: 1, ??????. • BL: [985.h.4.]. • Caley & Richards, *Theophrastus*, 1956: p. 5 & 11. • Dryander, *Catalogus Banks*, 1796-1800: 4, p. 6. • NUC: 589, 383-94 [NT 0142311]. • Pritzel, *Thesaurus Literaturæ Botanicae*, 1871-3: no. 9190. • Wellcome Catalog (Books): no. 6268. (Oporinus) ABF: II 495, 94. • WBI.

**4609. 2nd Latin edition, 1578:** Theophrasti | De Lapidibus | Liber, | Ab Adriano Tvrnebo | Latinitate donatus. | [ornament] | Lvtetiae, | Ex Officina Federici Morelli Typographi Regij, | in vico Iacobæo, ad insigne Fontis. | M. D. LXXVIII. | Cvm Privilegio Regis.

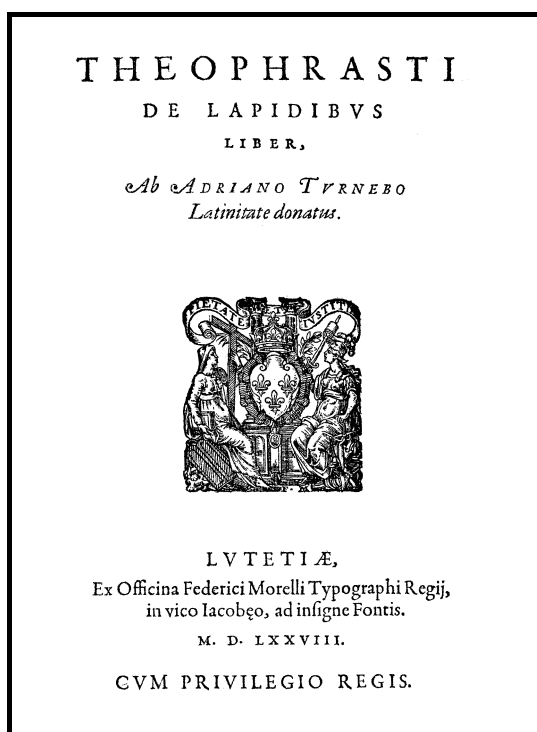
4<sup>o</sup>: [1]-15, [1] p. Printer's mark on title page (Renouard 796).

CONTENTS: [1-2], Title page, verso blank. [3]-15, Text (in Latin); [1 pg], Blank.

RARE. Adrien Turnèbe [1512-1565] was translator and editor of this first separate appearance in Latin of Theophrastus' *De Lapidibus*. Frédéric Morel was the printer on this edition.

**Adrien Turnèbe.** (BORN: 1512; DIED: 1565) *French printer*. Adrien Turnèbe, or Adrianus Turnebus, was one of the most eminent French humanists of the Renaissance. He was born at Les Andelys, a former province of northwestern France on the English Channel, now Normandy. At the age of twelve he was sent Paris to study, and attracted great notice by his remarkable abilities. After having held the post of professor of belles-lettres in the university of Toulouse, in 1547 he returned to Paris as professor, or royal reader, of Greek at the College Royal. In 1552 he was entrusted with the printing of the Greek books at the royal press, in which he was assisted by his friend Guillaume Morel. He died of tuberculosis on June 12, 1565.

Turnebes works chiefly consist of philological dissertations, commentaries on Aeschylus, Sophocles, Theophrastus, Philo and portions of Cicero, and



THEOPHRASTI DE LAPIDIBVS LIBER, 1578

translations of Greek authors into Latin and French. His son Adrien published his *Adversaria*, with a preface addressed to Michel de l'Hospital, containing explanations and emendations of numerous passages in classical authors. This is the first edition of the *Adversaria* which is considered Turnebes most important work. It was published a year before his death.

REFERENCES: BL: [726.d.1.(2.)]. • Caley & Richards, *Theophrastus*, 1956: p. 5 & 11. • Dumoulin, *Vie et Oeuvres de Frédéric Morel*, 1901: no. 305. • NUC: 589, 383-94 [NT 0142451]. • Renouard, *Imprimeurs Parisiens*, 1898: no. 796. (Turnèbe) ABF: I 1003, 406-459; II 617, 9-11. • Feller, *Biographie Universelle*, 1851. • *Nouvelle Biographie Générale* (Hofer). • Renouard, *Imprimeurs Parisiens*, 1898. • WBI.

4610. 3rd Latin edition, 1605: Theophrasti | Eresii, | Peripateticorum post Aristotelem principis, | pleraque antehac Latine numquam, nunc Græcè | & Latine simul edita. | Interpretibus, | Daniele Fvrlano Cre- | tensi, Adriano Tvrnebo. | Accesserunt liber de innato spiritu, Aristoteli attributus & | Danielis Fvrlani Vberes | ad omnia Commentarii. | Ex bibliotheca Ioan. Vincentii Pinelli. | [ornament] | Hanoviae. | Typis Wecheliani, apud Claudium Marnium, | & hæredes Ioannis Aubrii. | MDCV.

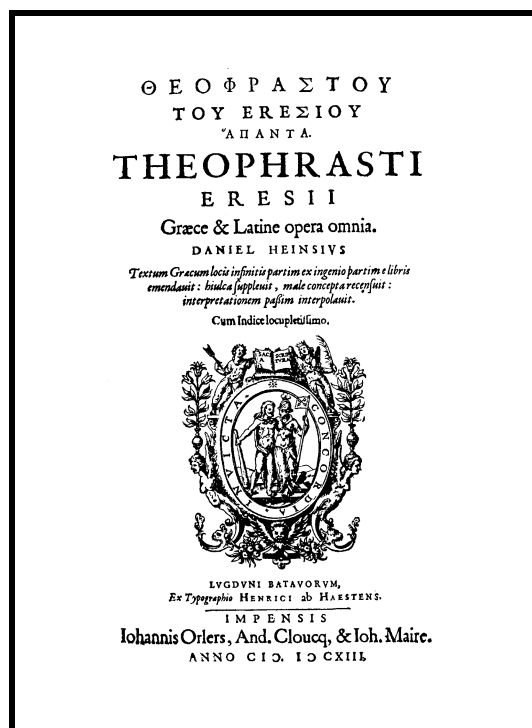
2° (in 6s):  $\pi^2$  A-II<sup>6</sup> Kk<sup>8</sup>; 203 $\ell$ .; [4], [1]-397, [3] p. Printer's device on the title page and verso of leaf following page 397. PAGE SIZE: 344 x 204 mm.

CONTENTS: [2 pgs/= $\pi$ 1], Title page, verso blank; [1 pg/= $\pi$ 2r], Blank.; [1 pg/= $\pi$ 2v], "Liborum Fragmento- | rvmqve Theophrasti Hoc Volv- | mine contentorum, syllabus." (=table of contents listing 19 entries); 1-397 (=A1r-Kk7r), Text.; [2 pgs/=Kk7v-Kk8r], "Index Rervm..."; [1 pg/=Kk8v], Printer's device repeated from the title page.

RARE. Daniel Furlanus' edition published in Hanover containing the Greek text of some of Theophrastus' works, together with a Latin translation and commentary. *De*

*Lapidibus* with a commentary by Daniele Furlano occurs on pages 1-54. Pages 1-14 are a parallel Greek and Latin columns, page 15 to the first half of 16 hold a dedication to Ioan. Vincentio Prinello and the remainder of the text is devoted to Daniele Furlano's commentary.

REFERENCES: BL: [C.77.f.13.]. • Caley & Richards, *Theophrastus*, 1956: p. 5 & 11. • LKG: III 2. • NUC: 589, 383-94 [NT 0142313]. • Sinkankas, *Gemology Bibliography*, 1993: no. 6588.



THEOPHRASTI ERESSII GRÆCE &amp; LATINE, 1613

4611. 4th Latin edition, 1613: ΘΕΟΦΡΑΣΤΟΥ | ΤΟΥΕΡΕΣΙΟΥ | ΠΑΝΤΑ. | Theophrasti | Eresii | Græce & Latine opera omnia. | Daniel Heinsivs | Textum Græcum locis infinitis partim ex ingenio partim e libris | emendavit: huiusce supplevit, male concepta recensuit: | interpretationem paginam interpolavit. | Cum Indice locupletissimo. | [ornament] | Lvgdvni Batavorum, | Ex Typographio Henrici ab Haestens, | [rule] | Impensis | Iohannis Orlers, And. Cloucq, & Ioh. Maire, | Anno CIO IO CXIII.

2°: [16], [1]-508 p. Title in red and black and with woodcut printer's device, text in double columns, Latin and Greek. PAGE SIZE: 317 x 198 mm.

RARE. Daniel Henius' Leyden edition of Theophrastus' works in Greek with a Latin translation and commentary is considered by classical scholars to be an inferior effort. Some emendations to the text were published by Salmasius (Claude de Saumaise) in 1629 in his *Plinianæ Exercitationes*. The *De Lapidibus* is presented on pages 391-401.

First edition of the critical edition of Heinsius, Scaliger's pupil. The majority of the volume (pp. 1-388) is taken up with Theophrastus's classic *De causis plantarum* and *De historia plantarum*. The Latin translation is by Theodorus Gaza.

The two main works comprise 'the earliest work of scientific botany, consisting of two separate treatises: *De historia plantarum*, on description, classification, and



## THEOPHRASTUS

analysis; and De causis plantarum, on etiology. Part of the work is devoted to plant lore and the medicinal uses of plants, making it the earliest complete extant herbal and pharmacopoeia as well. Theophrastus was a longtime associate of Aristotle and succeeded him as head of the Peripatetic School in Athens; his works on botany correspond to Aristotle's *Historia animalium* and *De partibus animalium*. Theophrastus described about 500 plants, ranging geographically from the Atlantic to the Mediterranean littoral and as far as India, using a method of classification that recognized the manifold nature of plants and the differences between plants and animals; the classification system, although necessarily primitive, maintained its authority until the advent of the microscope in the seventeenth century' (Norman catalogue). See A.G. Morton, *History of Botanical Science*, chapter 3, 'Theophrastus to Galen'.

A further section, *Opuscula*, has its own title page and contains the *Liber de lapidibus*, *Liber de ventis*, *De signis pluviarum*, *De igne liber*, *Liber de odoribus*, *Liber de sudoribus*, *Liber de piscibus*, *Characteres ethici*, etc., translated by Daniel Furlanus, Adrien Turnebe and Isaac Casaubon.

Krivatsy 11779; Simoni T52

REFERENCES: BL: [C.79.e.7.]. • Caley & Richards, *Theophrastus*, 1956: p. 5 & 11. • Dryander, *Catalogus Banks*, 1796-1800: 4, p. 6. • Graesse, *Trésor de Livres Rares*, 1859-69: 6, 2, 124. • NLM 17th Century Books (Krivatsy): no. 11779. • NUC: 589, 383-94 [NT 0142318]. • Pritzel, *Thesaurus Literaturæ Botanicae*, 1871-3: no. 9196. • Schweiger: 1, 319. • Ward & Carozzi, *Geology Emerging*, 1984: no. 2164. • Wellcome Catalog (Books): no. 6269.

Ioannis De Laet Antverpiani De gemmis et lapidibus libri duo quibus præmittitur Theophrasti liber De lapidibus Græce et Latine cum brevibus annotationibus. (Lugduni Batavorum, 1647).

See: Laet, Jan (Johan, Joannis) De.

**4612. 6th Latin edition, 1818-21:** Θεοφράστου Ερεσιοντα σωζομενα. Theophrasti Eresii quae supersunt opera et excerpta librorum quatuor tomis comprehensa; ad fidem librorum editorum et scriptorum emendavithistoriam et libros VI de causis plantarum conjuncta opera D.H.F. Linkii excerpta solus explicare conatus est Io. Gottlob Schneider. Lipsiae, Sumtibus Vogelii, 1818-21.

5 vols. [VOL 1: 1818] 8°: xl, 896 p. [VOL 2: 1818] 8°: vi, 630, [2] p. [VOL 3: 1819] 8°: [2], 843 p. [VOL 4: 1820] 8°: [2], 873, [1] p. [VOL 5: 1821] 8°: lxvi, 549, [1] p

VERY SCARCE. Edited by Heinrich Friedrich Link [1767-1851] and Johann Gottlob Schneider [1750-1822] this is an elaborate, nineteenth century edition of the complete works of Theophrastus. It is the most valuable of several collections published during the century because of its extensive critical notes and commentaries that discuss the readings of the earlier editions. It has not yet been surpassed.

CONTENTS: I. Textvm Graecvm continens. II. Versionem latinam librorvm de historia et de causis plantarvm et plerorvmqve libellorvm phusicorm continens cvm cvris posterioribvs editoris Io. Gottlob Schneideri. III. Annotationes ad historiam plantarvm continens. IV. Annotationes ad libros de causis plantarum , opvscvla et fragmenta continens. V. Supplementvm et indicem rervm et verborvm continens.

**Johann Gottlob Schneider.** (BORN: 1750; DIED: 1822) *German author.*

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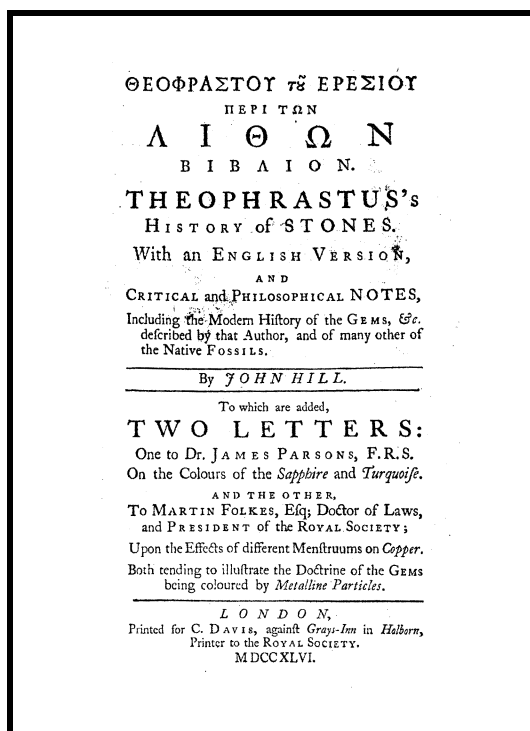
REFERENCES: BL: [7028.aaa.31.]. • Caley & Richards, *Theophrastus*, 1956: p. 6 & 11-2. • NUC: 589, 383-94 [NT 0142319]. (Schneider) ADB. • DBA: I 1125, 402-415; II 1170, 195-196. • Hamberger & Meusel, *Gelehrte Teutschland*, 1796-1834. • Poggendorff: 2, ?? . • WBI.

**4613. 1866-77:**ΘΕΟΦΡΑΣΤΟΣ. | [ornate rule] | Theophrasti | Eresii | Opera, Quæ Supersunt, Omnia | Græca Recensuit, Latine Interpretatus Est, | Indices Rerum Et Verborum Absolutissimos Adjecit | Fridericus Wimmer | Doct. Philos. | [ornament] | Parisiis, Didot, | M DCCC LXVI. 2 vols. [VOL 1: 1866] 4°: [4], xxviii, 547 p. [VOL 2: 1877] 4°: ?? p. Greek and Latin in parallel columns.

SCARCE. Collected works of Theophrastus, translated into Latin by Friederich Wimmer [1803-1868] and Friedrich Dübner [1803-1867]. Theophrastus the famous *Peri Lithon* is contained in volume one on pages 340-350 under the title "Libellus De Lapidibus." The text is printed in parallel columns with the Greek on the left and Wimmer's Latin translation on the right.

Facsimile reprint, 1964: Frankfurt am Main, Minerva GMBH, 1964.

REFERENCES: Garrison & Morton: no. 1783. • NUC: 589, 383-94 [NT 0142324].



THEOPHRASTUS'S HISTORY OF STONES, 1746

### English Editions

**4614. English transl., 1st edition, 1746:**ΘΕΟΦΡΑΣΤΟΥ τῆ ΕΡΕΣΙΟΥ | ΗΕΠΙ ΤΩΝ | ΛΙΘΩΝ | ΒΙΒΛΙΟΝ. Theophrastus's | History of Stones. | With an English Version, | and | Critical and Philosophical Notes, | Including the Modern History of the Gems, &c. | described by that Author, and of many other of | the Native Fossils. | [rule] | By John Hill | [rule] | To which are added, | Two Letters: | One to Dr. James Parsons, F.R.S. | On the Colours of the Sapphire and Turquoise. | And the other, | To Martin Folkes, Esq., Doctor of Laws, | and President of the Royal Society; | Upon the Effects of different Menstruums on Copper. | Both tending to illustrate the Doctrine of the Gems | being coloured by Metalline Particles. | [rule] | London, | Prined for C. Davis, against Grays-Inn in Holborn, | Printer to the Royal Society. | M DCC XLVI.

8<sup>o</sup>: A<sup>8</sup> a<sup>4</sup> B-O<sup>8</sup> P<sup>2</sup>; 118ℓ.; [i]-xxiii, [1], [1]-211, [1] p. PAGE SIZE: 196 x 113 mm.

CONTENTS: [i-ii], Title page, verso blank.; [iii]-vii, Dedication to Charles, Duke of Richmond, Lennox and Aubigny.; [viii], Blank.; ix-xiii, "List of the Subscribers."—printer's device p. xiii.; xiv-xxiii, "The Preface.;" [1 pg], Blank.; [1], "ΘΕΟΦΡΑΣΤΟΥ ΤΥΡΕΠΕΣΙΟΥ ΠΕΡΙ ΤΩΝ ΛΙΘΩΝ ΒΙΒΛΙΟΝ. Theophrastus's History of Stones.;" 2-159, Text [Greek language on the left page with English on the right].; [160], Blank.; [161], "Two Letters: One to Dr. James Parsons, F.R.S. On the Colours of the Sapphire and Turquoise ... And the other, to Martin Folkes, Esq; ... On the Effects of different Menstruums on Copper.;" [162], Blank.; 163-173, Text of letter one.; 174-190, Text of letter two.; 191-198, "Greek Index.;" 199-211, "The General Index.;" [1 pg], "Books printed for C. Davis."

VERY SCARCE. First translation of Theophrastus *Peri Lithon* into a modern language is this English translation by JOHN HILL of the ancient Greek text. It also is the first to include an extensive commentary on the mineral substances mentioned by Theophrastus. Caley and Richards say "It is still of considerable value for the light it throws on the state of chemical, geological, and mineralogical knowledge in the period during which it was written." (*Introduction*, p. 6). Subsequent translations into French and German use Hill's text as their source material.

REFERENCES: BL: [444.c.51.(3.)]. • Caley & Richards, *Theophrastus*, 1956: p. 5 & 11. • Dryander, *Catalogus Banks*, 1796-1800: 4, p. 6. • *Freilich Sale Catalog*: nos. 248 & 525. • Hoover Collection: no. 784. • NUC: 589, 383-94 [NT 0142524]. • Sinkankas, *Gemology Bibliography*, 1993: no. 6591.

**4615. English transl., 2nd edition, 1774:** ΘΕΟΦΡΑΣΤΟΥ ΤΟΥ ΤΥΡΕΠΕΣΙΟΥ ΠΕΡΙ ΤΩΝ ΛΙΘΩΝ ΒΙΒΛΙΟΝ. [rule] Theophrastus's | History of Stones. | With an English Version, and Notes, | Including the Modern History of the Gems described by | that Author; and of many other of the Native Fossils. | To which are added, | Two Letters: | I. On the Colours of the Sapphire and Turquoise. | II. Upon the Effects of different Menstruums on Copper. | Both tending to illustrate the Doctrine of the Gems being | coloured by Metalline Particles. | [rule] The Second Edition; | Enlarged by the Addition of a Greek Index of all the Words in Theophrastus. | Also | Observations on the New Swedish Acid, | and of the Stone from which it is obtained; | and with | An Idea of a Natural and Artificial Method of Fossils. | [rule] By Sir John Hill. | [double rule] London: | Printed for the Author, in St. James's-Street: | And sold by L. Davis, in Holborn; Nourse, in the Strand; White in | Fleet-Street; Cater, in Holborn; Bell, in the Strand; Fletcher, | at Oxford; Woodyer, at Cambridge; and Bell, at Edinburgh. | [rule] M DCC LXXIV.

8<sup>o</sup>: A<sup>4</sup> B-U<sup>8</sup> X<sup>7</sup> \*X<sup>8</sup> †X<sup>5</sup> Y-Z<sup>8</sup> 2A<sup>8</sup> 2B<sup>2</sup>; 198ℓ.; [i]-viii, [1]-342, [45], [1] p. PAGE SIZE: 212 x 125 mm.

CONTENTS: [i-ii], Title page, verso blank.; [iii]-viii, "Preface.;" [1], ΘΕΟΦΡΑΣΤΟΥ ΤΟΥ ΤΥΡΕΠΕΣΙΟΥ ΠΕΡΙ ΤΩΝ ΛΙΘΩΝ ΒΙΒΛΙΟΝ. | Theophrastus's | History | Of Stones.;" 2-265, Text [Greek language on the left page with English on the right].; [266], Blank.; 267-278, "Appendix I. | [rule] | Observations | On | The new-discovered Swedish Acid; | And On | The Stone from which it is obtained.;" [279]-291, "Appendix II. | [rule] | An Idea of an Artificial Arrangement | of Fossils, according to unalterable Characters, | and supadded Qualities: | Also | Of a Natural Method; according to their | Ascent toward their greatest Perfection.;" 292-318, "Native Fossils. | [rule] | Class III. | Spar." [Reset text of the author's *Spatogensia*, London, 1772].; [319], "Two | Letters: | One, | On the Colours of the Sapphire | and Turquoise. | And The Other, | On the Effects of different Menstruums | on Copper.;" [320], Blank.; [321]-327, Text of letter one.; 328-342, Text of letter two.; [30 pgs], "Greek Index | Of | Names of Stones.;" [15 pgs], "The | General Index.;" [1 pg], Blank.

VERY SCARCE. English translation by JOHN HILL of the ancient Greek text. This is a largely unaltered reprinting of the original 1746 edition with regards to the text and translation, but containing additional commentary in the appendix and a fuller index.

REFERENCES: BL: [726.d.2.]. • Caley & Richards, *Theophrastus*, 1956: p. 5 & 11. • Cole, *Chemical Literature*, 1988: no. 1269. • NUC: 589, 383-94 [NT 0142525]. • Sinkankas, *Gemology Bibliography*, 1993: no. 6592.

### French Edition

**4616. French transl., 1754:** Traité | Des Pierres | de | Théophraste | traduit du Grec; | Avec des Notes Physiques | & Critiques, traduites de l'Anglois | de M. Hill; | [...5 lines of titles & memberships...] | [ornament] | A Paris, | Chez Jean-Thomas Herissant, Libraire, | rue S. Jacques, à S. Paul & à S. Hilaire. | [double rule] | M. DCC. LIV. | Avec Approbation & Privilège du Roi.

12<sup>o</sup>: [i]-xxiv, [1]-287, [1] p. PAGE SIZE: 155 x 92 mm.

CONTENTS: [i-ii], Title page, verso blank.; [iii]-iv, "Avertissement.;" v-xxi, "Préface.;" xxii-xxiv, "Approbation.;" [1]-221, "Traité de Théophraste sur les Pierres.;" [222], Blank.; [223], "Deux Lettres de M. Hill; La Première, Sur les Couleurs du Saphir & de la Turquoise ... La Seconde, Sur les effets que produisent différens Menstrues sur le Cuivre ...;" [224], Blank.; 225-241, Text of letter one.; 242-268, Text of letter two.; 269-287, "Table des Matieres.;" [1 pg], Blank.

VERY SCARCE. French translation of John Hill's *Theophrastus's History of Stones* (London, 1746).

REFERENCES: BL: [972.g.9.]. • Caley & Richards, *Theophrastus*, 1956: p. 6 & 12. • Dryander, *Catalogus Banks*, 1796-1800: 4, p. 6. • *Freilich Sale Catalog*: no. 526. • NUC: 589, 383-94 [NT 0142532]. • Sinkankas, *Gemology Bibliography*, 1993: no. 6593.

### German Editions

**4617. German transl., 1770:** Theophrastus | von den Steinen, | aus dem Griechischen. | [rule] | Nebst | Hills | physicalischen und kritischen | Anmerkungen, | und einigen | in die Naturgeschichte und Chymie | einschlagenden | Briefen, | aus dem Englischen übersetzt. | [rule] | Mit | Anmerkungen, | und | einer Abhandlung von der Kunst der Alten | in Steine zu schneiden, vermehret, | von | Albert Heinrich Baumgärtner. | [ornate rule] | Nürnberg, | bey Johann Adam Lochner. 1770.

8<sup>o</sup>: 16, 384 p. PAGE SIZE: 185 mm.

VERY SCARCE. German translation by Albert Heinrich Baumgärtner of John Hill's *Theophrastus's History of Stones* (London, 1746).

**Albert Heinrich Baumgärtner.** (BORN: 1743; DIED: 1809) *German historian.*

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REFERENCES: *Berlinische Sammlungen*: 3, 657. • BL: [973.a.4.]. • Caley & Richards, *Theophrastus*, 1956: p. 6 & 12. • *Freilich Sale Catalog*: no. 527. • *Halle gelehrte Zeitung*: 185. • *Jenaische gelehrte Zeitungen*: 411. • LKG: III 3a. • NUC: 589, 383-94 [NT 0142538]. • Sinkankas, *Gemology Bibliography*, 1993: no. 6594. (**Baumgärtner**) DBA: I 64, 108-124. • Meusel, *Verstorbenen Deutschen Schriftsteller*, 1802-16. • WBI.

**4618. German transl., 1807:** Abhandlung von den Steinarten. Aus dem Griechisch übersetzt und mit Anmerkung begleitet von Carl Schmeider. Freyberg, Craz und Gerlachschen Buchhandlung, 1807.

8<sup>o</sup>: xii, 84 p.

VERY RARE. Translation by KARL CHRISTOPH SCHMEIDER who felt that the previous German translation of Theophrastus' *Peri Lithon* published in 1770 was not very good so he created his own. Based upon the title this translation is a fresh rendering of Theophrastus' text into

## THOMAS AQUINAS

German from the original Greek text. This edition appears to be a very rare book.

REFERENCES: BL: [no copy listed]. • Caley & Richards, *Theophrastus*, 1956: p. 6. • Leonard's *Taschenbuch*: 2 (1808), 322-3. • LKG: III 4b. • NUC: 589, 383-94 [NT 0142326].

**THIEME, P. van Eldik.** *Dutch mineralogist.*

Leerboek der Mineralogie. Naar het Hoogduitsch van F. Quenstedt door P. van Eldik Thieme. (Amsterdam, 1867).

See: Quenstedt, Friedrich August Von.

**THÖLDE, Johann.** (BORN: ; DIED: ) *German chemist.*

REFERENCES: Poggendorff: 2, cols. 1095-6.

**4619. — German, 1603** [First edition].

Haligraphia, Das ist, Gründliche und eigendliche Beschreibung aller Saltz Mineralien. Darin von deß Saltzes erster Materia, Ursprung, Geschlecht, Unterscheid, Eigenschaft, ... klerlich gehandelt wird. Beneben einer Historischen Beschreibung aller Saltzwercke ihrer Umbstende und Gelegenheit. Auch wie man aus allen Metallen und vornembsten Mineralien, deßgleichen aus Thieren, Kreutern und Gewürtzen ihre Saltz außziehen, und zu Menschlicher Gesundheit brauchen sol ... am Tag geben, Durch Johan Thölden, Hessum ... [Leipzig], Apel ; Eißleben, Gaubiscus, 1603.

8°: A-Z<sup>8</sup> ): (8 ; 192ℓ.; [48], 316, [20] p. (last 5 p. blank). Includes index. Title page in black and red. Head and tail pieces, initials. COLOPHON: In Vorlegung Jacob Apels/ Buchhendl. Im M.DC.III. Jahr.

RARE. Thölde is the probable author of the many works attributed BASILIUS VALENTINUS, a supposed fourteenth century chemist. The *Haligraphia, das ist, Gründliche und eigendliche Beschreibung* published in 1603, a year before Basilius Valentini's *Triumph-Wagen des Antimonii* appeared, is the only work published by Thölde under his own name. It treats the salt works of Lüneburg, with a description of the surrounding village, mining operations, mineralogy, purifying, economics (including yeilds, costs, wages), etc. It has been pointed out by Hoefer that this work bears a strong resemblance to the *Letztes Testament* attributed to Basil Valentini and published in 1626. It was perhaps the slight reception the *Haligraphia* received that caused him to publish under the name of Basil Valentini.

REFERENCES: BL: [1033.a.1.]. • Ferguson, *Bibliotheca Chemica*, 1906: 2, 445n [No copy seen]. • Hoefer, *Histoire de la Chimie*, 1866-9: 1, p. 481. • Multhaus, Robert P., *Neptune's gift. A history of common salt*. Baltimore and London, John Hopkins University, 1978. xviii, 325 p., illus, index, biblio: [p. 67]. • Partington, *History of Chemistry*, 1961-70: 2, p. 186-187. • VD17: 12:133562P.

**4620. Another edition, 1612:** Haliographia, Das ist: Gründliche und eigendliche Beschreibung aller Saltz-Mineralien. Darinn von des Saltzes erster Materia/ Ursprung/ Geschlecht/ unterscheid/ Eigenschaft/ ... klärlich gehandelt wird/ Beneben einer Historischen Beschreibung aller Saltzwercke/ ihrer Umbstände und gelegenheit/ Auch wie man aus allen Metallen und vornembsten Mineralien/

deßgleichen aus Thieren/ Kräutern und Gewürtzen ihre Saltz außziehen/ und zu Menschlicher gesundheit brauchen soll ... an tag geben/ Durch Johann: Thölden/ Hessum ... [Leipzig], Apel, 1612.

8°: A-Y<sup>8</sup>: 176ℓ.; 336, [16] p. Title in red and black. COLOPHON: In verlegung Jacob Apels/ Buchhändl. Im M.DC.XII. Jahr. RARE.

REFERENCES: Partington, *History of Chemistry*, 1961-70: 2, p. 187. • VD17: 39:117851B.

**THOMAS AQUINAS, Saint.** (BORN: Aquino, Italy, 1225; DIED: Fossa Nuova, ??, 7 March 1274) *Italian theologian & natural philosopher.*

St. Thomas Aquinas was born in Aquino, a town in southern Italy from which he takes his surname. In his masterwork, *Summa Theologica*, he represents the pinnacle of scholasticism, the philosophical and theological school that flourished between 1100 and 1500 and attempted to reconcile faith with reason and the works of Aristotle with the scriptures.

The family of Thomas Aquinas was a noble one, his parents, the Count of Aquino and Countess of Teano, were related to Emperors Henry VI and Frederick II, as well as to the Kings of Aragon, Castile, and France. During his early education, Thomas exhibited great acumen in the medieval trivium of grammar, rhetoric, and logic. Because of his high birth, Thomas' entry into the Dominican order in the early 1240s was very surprising. His family employed various means to dissuade him from his vocation, including imprisoning him for two years.

After a stint as a student in Paris, Thomas made his way to Cologne to teach, receiving ordination to the priesthood in 1250. Soon after this, he was assigned to teach at Paris, where he also worked toward his degree of Doctor of Theology, which he received in 1257, with his friend St. Bonaventure, after some intramural political difficulty. The remainder of his life was spent in prayer, study, and writing his great *Summa Theologica*, a systematic attempt to present the findings of scholasticism. Although Thomas is sometimes perceived simply as an analytical and methodical writer, he was, especially in his later years, given to periods of mystical ecstasy. During one such experience, on December 6, 1273, he resigned from his writing project, indicating that he had perceived such wonders that his previous work seemed worthless.

The *Summa Theologica* was left unfinished, proceeding only as far as the ninetieth question of the third part. St. Thomas Aquinas died a few months later, on March 7, 1274. He was canonized in 1323 by John XXII. Although interest in Scholasticism in general and Thomism in particular waned during the seventeenth and eighteenth centuries, Leo XIII's encyclical *Aeterni Patris* in 1889 reestablished Thomism as the leading theological school of the Catholic church. Today, Thomist theology stands at the center of the Roman Catholic tradition.

REFERENCES: DSB: 1, ?? . • *Encyclopaedia Britannica*, 11th edition. • *Nouvelle Biographie Générale* (Hoefer).

**4621. — Latin, 1592.**

Secreta | Secretorum | Raymvndi Lvlly | Et Hermetis Philo- | sophorum In Libros | Tres Divisa. | Cvm Opvscvlo D. Tho- | mæ Aquinatus, de Esse & Essentia minera- | raliū, & Cornelij Aluetani Ansrodij, | de consiciendo diuino Elixire libellus. | Elizabethae Reginæ | Anglæ, &c. dicatus. | Omnibus Medicinæ & Chymiaē stu- | diosis forevtillissimus. | Materiam singulorum post præsationem & a- | gina indicabit. | [ornament] | Coloniae, | Apud Gosuinum Cholinum. | [rule]

Anno M. D. LXXXII. | Cum gratia & priuilegio  
Cæs. Maiest.

8°: [8], 155, [1] p.

RARE. Contained in this work is an interesting tract attributed to Aquino. Ferguson provides an interesting discussion regarding this and other alchemical treatises authored by Aquino.

REFERENCES: BL: [1032.a.4.(1.)]. • Ferguson, *Bibliotheca Chemica*, 1906: 2, 54. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 23. • LKG: III 32. • Palau, *Manual*, 1948-77: 4, 298.

### THOMAS DE AQUINO.

See: Thomas Aquinas, Saint.



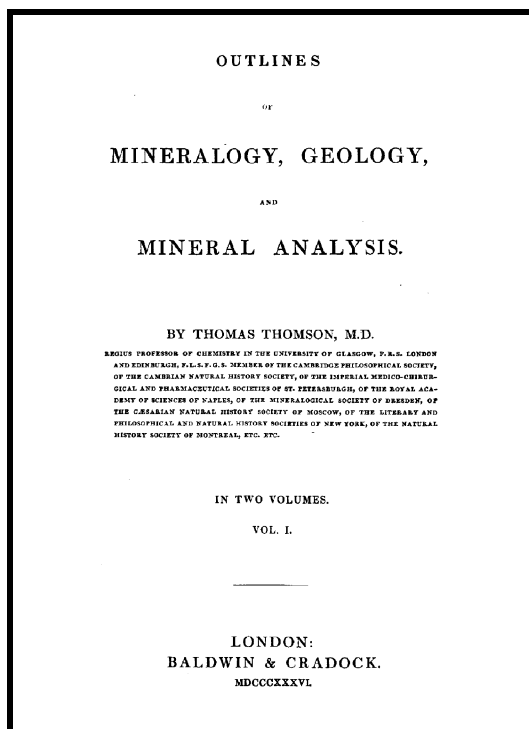
THOMSON

**THOMSON, Thomas.** (BORN: Crieff, Perthshire, Scotland, 12 April 1773; DIED: Kilmun, Argyshire, Scotland, 2 July 1852) *Scottish physician, chemist & mineralogist.*

Thomson was educated at the Universities of St. Andrews and Edinburgh. After receiving the degree of M.D. in 1799, he established himself in Edinburgh as an instructor in chemistry. From 1796 to 1800, he was sub-editor of the *Encyclopaedia Britannica*, and the chemical and mineralogical articles he contributed to the supplement of the third edition formed the basis of his popular *System of Chemistry* (1st ed., 1802). In 1813, he relocated to London and founded and began editing the *Annals of Philosophy*, then in 1817, he became lecturer in chemistry at Glasgow University. In 1818, Thomson was appointed to the regius professorship at the University, a post he held until his death. Through his chemistry textbooks, he did much to spread the atomic theory of Dalton.

REFERENCES: *Annual Register*. • BBA: I 1080, 56-89; II 1802, 316. • Berzelius, J.J., *Lettres éditées au nom de l'Académie Royale des Sciences de Suède par H.G. Söderbaum. Supplément édité par Arne Holmberg. Lettres de Berzelius à Thomas Thomson et Alexandre Brongniart*. Uppsala, Almqvist et Wiksells, 1935. 24 p. • *Biographie Universelle*: 41, 421. • Cleavelly, *World Palæontological Collections*, 1983: 287. • Cole, *Chemical Literature*, 1988: 530. • Crum, W., "Sketch of the life and labours of Dr. Thomas Thomson," *Proceedings of the the Philosophical Society of Glasgow*, 3 (1855), 250-64. • DNB: 56, 271-2 [by A. Harden]. • DSB: 13, 372-4 [by J.B. Morrell]. • *Eminent*

*Scotsmen*: 3, 452-5, portrait. • *Encyclopaedia Britannica*, 11th edition. • *Gentleman's Magazine*: 1852, no. 2, 202-6. • *ISIS*, 1913-65: 2, 546. • Kent, A., ed., *An eighteenth century lecturship in chemistry. Essays and bicentenary adrrses relating to the Chemistry Department (1747) of Glasgow University (1451)*. Glasgow, 1950. [Published as: *Glasgow University Publications*, no. 82.] [see pages 176-90]. • Klickstein, H.S., "Thomas Thomson. Pioneer historian of chemistry," *Chymia*, 1 (1948), 37-53, portrait. • Livingstone, *Minerals of Scotland*, 2002: p. 30-2, portrait. • Mauskopf, S.H., "Thomson before Dalton. Thomas Thomson's considerations of the issue of combining weight proportions prior to his acceptance of Dalton's chemical atomic theory," *Annals of Science*, 25 (1969), 229-42. • Morrell, J.B., "The chemist-breeders: the research schools of Liebig and Thomas Thomson," *Ambix*, 19 (1972), 1-46. • Morrell, J.B., "Thomas Thomson: professor of chemistry and university reformer," *British Journal for the History of Science*, 4 (1969), 245-65. • Partington, *History of Chemistry*, 1961-70: 3, 716-21, portrait. • Partington, J.R., "Thomas Thomson, 1773-1852," *Annals of Science*, 6 (1949), 115-26. • Poggendorff: 2, cols. 1097-1100. • *Proceedings of the Linnean Society of London*: 1851, 240-1. • *Quarterly Journal of Geological Society of London*: 9 (1853), xxvii. • Sarjeant, *Geologists*, 1980: 3, 2263-4. • Schaedler, *Biographisch Handwörterbuch*, 1891: 134-5. • Thomson, R.D., "Biographical notice of the late Thomas Thomson," *Glasgow Medical Journal*, 5 (1857), 69-80, 121-53, 379-80, portrait. • WBI. • Wehefritz, *Bibliography of Chemistry*, 1994: 3, 1528-30. • *World Who's Who in Science*: 1670.



OUTLINES OF MINERALOGY, 1836

4622. — English, 1836.

Outlines | of | Mineralogy, Geology, | and |  
Mineral Analysis. | By Thomas Thompson, M.D.

[...8 lines of titles and memberships...] | In Two Volumes. | Vol. I [-II] | [rule] | London: | Baldwin & Cradock. | MDCCLXXXVI.

2 vols. [VOL 1] 8°: [i]-viii, [1]-726, [2] p.; [VOL 2] 8°: [iii]-vii, [1], [1]-566 p. (Missing half title?). PAGE SIZE: 218 x 130 mm.

CONTENTS: [Vol 1] [i-ii], Title page, verso "Glasgow:— E. Khull, Printer to the University."; [iii]-v, "Preface."; [vi], Blank.; [vii]-viii, "Contents. Vol I."; [1], "Outlines of Mineralogy and Geology."; [2], Blank.; [3]-21, "Part I. Of Mineralogy. Introduction."; [22], Blank.; [23]-43, "Arrangement and Description of Minerals."—being a synopsis of the classification scheme.; 44-667, Descriptive mineralogy.; [668], Blank.; [669]-726, "Appendix."; [727], Errata.; [1 pg], Blank.

[Vol 2] [i-ii], [Half title page, verso blank; this was not present in the copy examined.]; [iii-iv], Title page, verso "Glasgow:—E. Khull, Printer to the University."; [v]-vii, "Contents."; [viii], Blank.; [1]-345, Part II. Of Geology."; [346], Blank.; [347]-354, "Part III. Of the Method of Analyzing Minerals. Introduction."; 355-438, "Book I. Of the Analysis of Oxydized Bodies."; 439-553, "Book II. Of the Analysis of Metallic Ores."; [554], "Note."; [555]-566, "Index."

SCARCE. The articles "Mineralogy," "Chemistry," "Meteorology" and "Animal and Vegetable Substances" written by Thomson for the Supplement to the third edition of the *Encyclopedia Britannica* (London, 1800-1) were collected together an enlarged and reissued in 1802 as his *System of Chemistry* (see related works below). This was the first extensive treatise on chemistry written in Great Britain, and it had enormous popularity, with seven editions being issued between 1802 and 1831. Within the second portion of the work, mineralogical bodies are arranged according to an artificial classification consisting of six classes based on physical and chemical properties, as well as a natural system that organized the stones, salts, combustibles and ores. Ultimately, the *System* was split into separate works on inorganic chemistry, organic chemistry, heat and electricity and mineralogy. The last, which was ten years in preparation, was published in 1836 as *Outlines of Mineralogy, Geology, and Mineral Analysis*. The objective of the work was to promote the advancement of mineralogical chemistry by collecting numerous facts from scattered sources together with much original research, and meld them into a cohesive system, in which new discoveries could be reported. In support, Thomson determined the chemical constitution of all the known mineral species that he could procure through the same rigid chemical analysis. His procedures are fully described in the third section of the text. As a result of this paradigm, Thomson discovered many new species, which are described in these volumes for the first time. Here, also, Thomson has published a foundation of research that provided the best and longest list of chemical compositions of minerals written to that time, and foreshadowed the importance chemistry would play in mineralogy in the coming decades. This is highlighted by the fact that the minerals are arranged on the basis of their chemical composition and not by their physical properties as was typical of the time. In addition, Thomson provides in the second

section of the text, interesting observations on the chemical composition of various rocks, anticipating the importance of geochemistry.

The text of the *Outlines* is divided into three parts: I. Description of all known minerals.; II. Account of nature and position of different rocks in the crust of the earth.; III. Detailed methods by which minerals may be analyzed.

**Related work:** A | System | of | Chemistry. | In Four Volumes. | [double rule] | By Thomas Thomson, M.D. | Lecturer on Chemistry in Edinburgh. | [double rule] | Vol. I. [-IV.] | [rule] | Edinburgh: | Printed for Bell & Bradfute, and E. Balfour; G. & J. Robinson, London; — and | Gilbert & Hodges, Dublin. | [rule] | M.DCCC.II.

4 vols. 8°: [i]-xvi, [1]-503 p.; [i]-viii, [1]-514 p.; [i]-viii, [1]-528 p.; [i]-viii, [1]-570, [2] p., 4 engraved plates.

This 1802 issue is the first edition of Thomson's most popular work. 'As the first systematic treatise of a non-elementary kind to break the French monopoly of such works, Thomson's system tried patriotically to do justice to the contribution made by British chemists to the new chemistry' (DSB). First published when Thomson was 28, the work was written during his time as a lecturer at Edinburgh University. The only previous comparable work was that of Fourcroy — his large treatise *Système des Connaissances Chimique* (Paris, 1801-2), which 'lacked an adequate use of important and numerous English sources' (Partington, p. 719). A *System of Chemistry* went through several editions each revised and expanded (2nd, 1804; 3rd, 1807; 4th, 1810; 5th, 1817; 6th, 1820; 7th, 1831), attesting to its' enormous popularity as a clear and concise introduction to the subject, and it remained for many years a standard work. The treatise also received the accolade of being itself translated into French, with a preface by Berthollet.

REFERENCES: BL: [970.h.28.]. • (Outlines) BMC: 5, 2100. • Dana's 7th (Bibliography): 81. • (System) Cole, *Chemical Literature*, 1988: nos. 1278-1283. • NUC: [NT 0190838-45]. • Partington, *History of Chemistry*, 1961-70: 3, 719.

**THORODDSEN, Thorvaldur.** (BORN: Flatey, Breiðfjörður, Iceland, 6 June 1855; DIED: 1921) *Icelandic geologist & geographer.*

Son of a novelist, Thoroddsen studied natural sciences, especially zoology and geology at the Universities of Copenhagen and Leipzig. He returned to Iceland taking up various teaching positions, and often exploring the natural wonders of his homeland. He received an honorary Ph.D. from the University of Copenhagen in 1896.

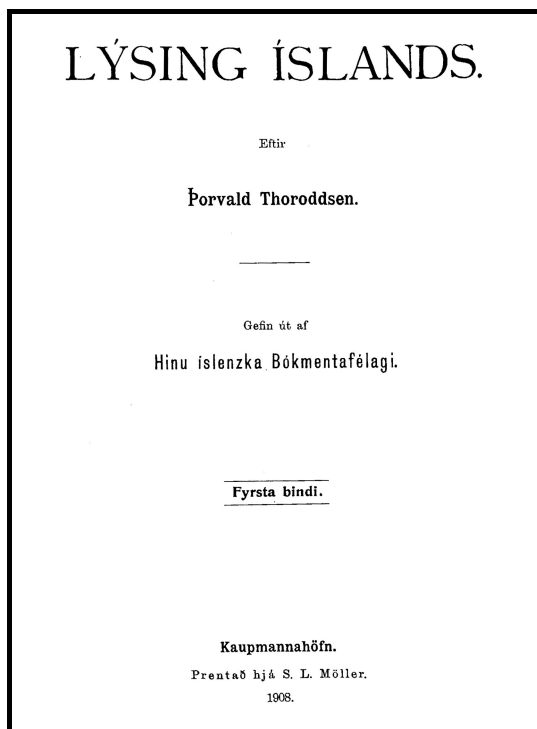
REFERENCES: Hermannsson, H. "Icelandic authors of to-day," *Islandica*, 6 (1913), pp. xiv, 69. • SBA: Scandinavian Biographical Archive: A-330, 362-369. • *Svenskt Biografiskt Handlexikon*. • *Svenskt Biografiskt Lexikon*. • WBI.

**4623. — Icelandic, 1908-22** [First edition].

Lýsing Íslands. | Eftir | Þorvald Thoroddsen. | [rule] | Gefin út af | Hinu íslenska Bókmenntafélagi. | [rule] | Fyrsta bindi. | [rule] | Kaupmannahöfn. | Prentað hjá S.L. Möller. | 1908.

4 vols. [VOL 1: 1908] 8°: 259 p. [VOL 2: 1911] 8°: 368 p. [VOL 3: 1919] 8°: 334 p. [VOL 4: 1922] 8°: 410 p.

RARE. Thoroddsen's *Description of Iceland* is the culmination of the dreams of many early explorers to produce a work of this kind and scope. It is the first comprehensive treatment of the island's history and geography, with a very extensive review of the



LÝSING ÍSLANDS, 1908

geology and geological research in Iceland up to that time. The author was a trained geologist and he includes descriptions of that landscapes remarkable geysers, hot springs, volcanoes, etc., as well as an extensive description of the Helgustadir quarry, the now exhausted locality that first produced the famous optical grade calcite known as 'Icelandic Spar', that mesmerized European scientists from the 15th century onwards.

**Related articles:** Concerning the original locality for the Iceland Spar, Thoroddsen wrote: "Die Fundstätte des isländischen Kalkspates," *Himmel und Erde*, 1 (1899), 471-7 and "Einige Bemerkungen über die Fundorte des isländischen Doppelspats," *Himmel und Erde*, 3 (1891), 182-7.

REFERENCES: BL. • NUC.

**THURNEISSER, Leonhard.** (BORN: Basel, Switzerland, 5 August 1531; DIED: Cologne, Germany, 8 July 1596) *Swiss alchemist.*

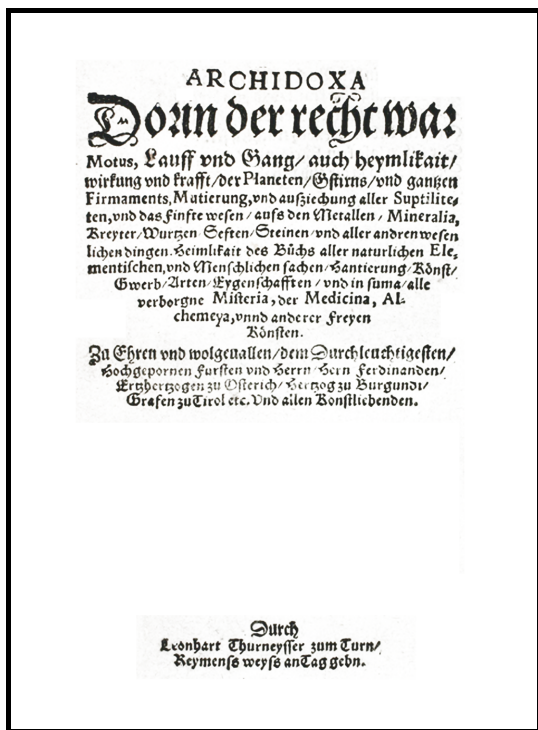
Thurneysser was the son of a goldsmith. He took up his fathers profession, but at the same time was a famulus to a local physician and alchemist. However, he was forced to flee Basel after having been discovered selling gold-covered lead as pure gold. He spent some time in Holland, northern Germany, France and England, working as a goldsmith, armorer, and soldier. In 1552, he returned to Germany and joined the army of Albert, Margrave of Brandenburg. He was captured in 1553 by the Saxons and put to work in the mines at Tarenz in the Inn Valley. Following his release, he worked as a goldsmith and smelter in Nuremberg. In 1558, he returned to the Tirol where he ran a mine and smelting facilities. His success brought him to the attention of Archduke Ferdinand of Austria. From 1560-70, he was in the service

of the Archduke, on whose instruction Thurneysser traveled to England, France, Bohemia, Hungary, Italy, Spain, and North Africa to acquaint himself with metallurgical methods and medicines. Thurneysser published a book in 1571 which brought him to the attention of the Elector of Brandenburg. After Thurneysser successfully treated the Elector's wife, he was made court physician in Berlin at a high salary. In Berlin, he also established a medical practice. In addition, he acted as adviser on metallurgy and mining, and established a huge laboratory—employing up to 300 people—at the nearby Greyfriars monastery for the production of saltpeter, mineral acids, alums, colored glass, drugs, essences, and amulets. Thurneysser became rich. He owned a large library, art collection, and a kind of natural history museum. He had agents in a number of German and Polish cities who advertised and sold his wares. In 1576, there was an outbreak of plague and Thurneysser fled with the court. In the years that followed, his second wife died, his business suffered terribly, and he became the object of increasing criticism from his colleagues. By 1580, he returned to Basel, where he purchased an estate, "Zum Thurn," and thereafter styled himself Leonhard Thurneysser zum Thurn. He married the daughter of the Basel patrician Hebrödt. Unfortunately, all of the large sum of money which he brought with him to Basel was given to his wife by the Basel town council in the divorce proceedings that followed. Having to rebuild his life, he returned to Brandenburg, reentered the service of Elector, and spent several years trying to make gold. After failing to transmute a large amount of silver, he finally left and traveled to Italy. About 1591, he found a patron in Ferdinand de' Medici, and was converted to Catholicism. He returned to Germany shortly before his death in 1596.

REFERENCES: ADB: 38, 226. • Boerlin, F.H. and L. Münster, "Leonhard Thurneysser depicted as an anatomist on a 16th-century glass painting," *Ciba Symp.* 8 (1960), 32-6. • Boerlin, P.H., *Leonhard Thurneysser als Auftraggeber: Kunst im Dienste der Selbstdarstellung zwischen Humanismus und Barock.* Basel; Stuttgart, Birkhäuser, 1976. 230 p., illus. [ISBN 3764308664]. • Bugge, G., *Der Alchemist. Die Geschichte Leonhard Thurneysers, des Goldmachers von Berlin.* Berlin, Limpert, 1939. 303 p., 12 figs. • DBA: I 1272, 151; II 1307, 356-358. • Diergart, P., "Mitteilungen zur Wertung des Paracelsisten. Leonhard Thurnyser," *Beiträge aus der Geschichte der Chemie*, pp. 306-13. • Drugulin, *Sechstausend Portraits*, 1863: nos. 5486-91. • DSB: 13, 396-8 [by W. Hubicki]. • Ferguson, *Bibliotheca Chemica*, 1906: 2, 450-5. • Hirsch, *Biographisches Lexikon*, 1884-8: 5, 582-3. • ISIS, 1913-65: 2, 548. • Moehsen, *Leben Leonhard Thurneysers zu Thurn*, 1976. • Moehsen, J.C.W., *Beiträge zur Geschichte der Wissenschaften in der Mark Brandenburg von den ältesten Zeiten bis Ende des 16en Jahrhunderts.* Berlin-Leipzig, 1783. [12], [1]-576, [7] p., 3 plates. [Reprinted, Hildesheim, Georg Olms Verlag, 1976. History of science in the German state of Brandenburg from beginnings through the 16th century.]: 55-198 [best biography]. • *Nouvelle Biographie Générale* (Hoefer). • Partington, *History of Chemistry*, 1961-70: 2, 151-2. • Peuckert, W.-E., *Der Alchimist und sein Weib. Gauner- und Ehescheidungsprozesse des Alchimisten Thurneysser.* Stuttgart, F. Frommann, 1956. 186 p., plates, port. [Series title: *Dokumente der Leidenschaft*, Bd. 1]. • Poggendorff: 2, col. 1104. • Reber, B., "Zwei neue Dokumente über Leonhard Thurneysser zum Thurn," *Mitteilungen zur Geschichte der Medizin und der Naturwissenschaften*, 5 (1906), 432-9. • Schaedler, *Biographisch Handwörterbuch*, 1891: 136. • Schmieder, *Geschichte der Alchemie*, 1927: 284-6. • Speter, Max. "Von Leonhard Thurneysers Glück und Ende", *Zeitschrift für Bücherfreunde*, 39 (1935), 146-??.

## THURNEISSER

*Centralblatt für Bibliothekswesen*, **10** (1893), 316-26 & 385-407. • Thurneisser zum Thurn, L., *Der Alchymist und sein Weib. Gauner- und Ehescheidungsprozesse des Alchymisten Thurneysser*. Herausgegeben von Will-Erich Peuckert. Stuttgart, F. Frommann, 1956. 186 p., portrait, illus. [Published as *Dokumente der Leidenschaft*, 1.]. • WBL. • *World Who's Who in Science: 1672*. • Zaunick, R. and Wein, "Ein Brief von Johannes Thal an Leonhart Thurneysser zum Thurn aus dem Jahre 1582 in rebus botanicis," *Sudhoff's Archiv*, **30** (1938), 401-6.



ARCHIDOXA, 1569

### Archidoxa

**4624. — German, 1569** [First edition].

Archidoxa | Dorin der recht war | Motus, Lauff vnd Gang/ auch Heymalikai/ | Wirkung vnd Krafft/ der Planeten / Gestirns/ vnd gantzen | Firmaments, Mutierung, vnd Ausziehung aller Suptilite= | ten, vnd das fünfte Wesen/ aufs den Metallen/ Mineralia, | Kreyter/ Wurtzen/ Seften/ Steinen/ vnd aller andrenwesen | lichen dingen. Heimlifait des Büches aller natürlichen Ele= | mentischen, vnd Menschlichen sachen/ Hantierung/ Könst/ | Gwerb/ Arten/ Eygenschaftten/ vnd in suma/ alle | verborgne Misteria, der Medicina, Al= | chemeya, vnnd anderer freyen | Künsten. | Zu Ehren vnd wolgenallen/ dem Durchleuchtigsten/ | hochgepornen fursten vnd Herrn Hern ferdinanden/ | Ertzbergzogen zu Osterich/

Hertzog zu Burgundi/ | Grafen zu Tirol etc. Vnd allen Konstliebenden. | Durch | Leonhart Thurneysser zum Thurn / | Reymenas weysse an Tag gebn.

4°: A<sup>4</sup> B<sup>10</sup> C-Bb<sup>4</sup> Bb<sup>2</sup>; 108ℓ.; [216] p., frontispiece (portrait), illus., folding table. COLOPHON: Gedruckt zu Munster in Westphalen durch Johann Ossenbrug auff Verlegung H. Herr Leonhart Thurneysers zum Thurn. 1569.

VERY RARE. This rare alchemical book is written in such an enigmatical style that it is practicably undecipherable. Printed at his own expense through the printer Johann Ossenbrügge of Münster, this first edition of the *Archidoxa* appeared in quarto format in 1569. The introductory letter is dated November 1569, and it records that the publication was supported by Duke Ferdinand.

Thurneisser was an ardent follower of PARACELUS in his chemical theories. The text is written in verse, and even balanced against the other alchemical works of the period, this is a book that is full of confused speculations and strange absurdities. Thurneisser repeats the common ideas of his fellow alchemists believing in the transmuting affects of the seven planets on the base metals, the importance of mercury in the process, the philosopher's stone, various oils, etc., with little in the way of new contributions from Thurneisser. But because the book treats the processes involved in metal transmutation, especially it solvents and reagents the work touches however lightly chemical mineralogy.

REFERENCES: BL: [1032.c.15.]. • BM/STC German: p. 861. • Ferguson, *Bibliotheca Chemica*, 1906: **2**, 450n. • Gmelin, *Geschichte der Chemie*, 1797-9: **1**, 266-76. • Houzeau, *Bibliographie de l'Astronomie*, 1964: 2681. • Moehsen, *Leben Leonhard Thurneissers zu Thurn*, 1976: pp. 63-4, 74 & 188-9. • NUC: **593**, 415-7 [NT 0209019]. • VD16: T-1165. • Wellcome Catalog (Books): no. 6295.

**4625. 2nd edition, 1575:** Archidoxa. Dorin der recht war Motus, | Lauff vnd Gang / auch heimlichkeit / Wirkung vnd | Krafft / der Planeten / Gestirns / vnd gantzen Firmaments Mutie- | rung / vnd ausziehung aller Subtiliteten / vnd das Fünffte wesen / auss den | Metallen / Mineralien / Kreytren / Wurtzen / Seften / Steine / vnd aller andren | wesentlichen dingen / Heimlikait des Buchs aller Natürlichen Elementischen | vnd Menschlichen sachen Hantierung / Könst / Gwerb / Arten / Eigenschf- | ten vnd in summa / viel verborgner Hysterien / der Medicin, Alchimey / | vnd anderer freyen Künsten sampt dem auszug / vnd | Verstand des Astrolabij / vnd aller | Zircklen Character / vnd | Zeichen. Zu Ehren vnd Wolgefallen / dem Durchleuchtig- | sten / Hochgebornen Fürsten / vnd Herrn / Herrn Ferdinan- | den / Ertzhertzogen / zu Oseterich / Hertzog zu Burgund / | Grafen zu Tyrol / etc. Vnd allen | Konstliebenden. | Zum andern mal vnd jetz von neuen gemert / vnd sampt | dem Verstand der Character an tag geben / | Durch | Leonhardt Thurneisser zum Thurn / Churfürstlichen | Brandenburgischen Bestalten Leibs Medicum. | [ornament] | Gedruckt zu Berlin im Grawen Closter Anno 1575.

[Part 1] 2°: x<sup>6</sup> (2 A-K<sup>6</sup> L<sup>2</sup>; 70ℓ.; [16] p., 60 numb.ℓ., [4] p., portrait. Title in red and black, with vignette of the author's coat of arms. [Part 2] 2°: [22] p., 156 numb.ℓ., [2] p. PAGE SIZE: 304 x 188 mm.

RARE. Printed at Thurneysser's own press. It is in verse. The first edition appeared at Münster in 1569.



During his lifetime Leonhard Thurneysser Zum Thurn was associated with innumerable reports of adventures and rumours. While he was known as a physician, chemist and astrologer and also as a printer and geographer, he had a bad reputation as a quack, charlatan and producer of gold.

One of his best known works is his *Archidoxa* with the astrolabe, which contains the tables of the planets. It appeared in 1575. The surface of each of the eight coloured tables holds up to six further discs which can be slid against each other. With their help it was supposed to be possible to predict not only natural phenomena, but also the luck and misfortunes of individuals. The drafts for these tables were created by Jost Amman, a well known artist of woodcuts, drawings and etchings.

REFERENCES: BL: [no copy listed]. • Ferguson, *Bibliotheca Chemica*, 1906: 2, 450. • Kopp, *Geschichte der Chemie*, 1843-7: 1, 110. • Moehsen, *Leben Leonhard Thurneissers zu Thurn*, 1976: pp. 74, 101, 106 & 191. • NUC: 593, 415-7 [NT 0209028]. • Shaaber, *Sixteenth Century Imprints*, 1976: T-216. • Sudhoff, *Bibliographia Paracelsica*, 1894: no. 503. • VD16: T-1166. • Wellcome Catalog (Books): 1, no. 6295.

#### 4626. — German, 1575.

Ευποραδῆλωσις. | Das ist ein gnügsume vber-  
flüssige vnd lusfrierliche erklerunge / oder erleute-  
runge / vnd verstandt der Archidoxen / Leonhart  
Thurneissers zum | Thurn Anno 1570 zu Munster  
in Westphalen / vnd jetz Anno 1575. | zu  
Berlin wider suffs neiw gesprechs und Reimen |  
weis aussgangen. | Darin mancherley Dieffsinniger  
Explica- | tionen / vnd eröffnungen vieler streittiger  
sachen / von | Göttern / Englen / Teuffeln /  
Menschen / Tieren / Characteren / Siglen / |  
Zaubreyen / Gespensten / Kreutteren / Metallen  
/ | Mineren / vnd Gesteinen eröffnet. | Sunderlich  
aber von den Himlen / Gestirn / Planeten /  
Zeichen / | vnd Bilderen / Item von den Elementen  
/ Commetten / vnd deren | Krefftten / Faculteten  
/ Wirkungen / Betriben / Arten / vnd |  
Aigenschaftten / sambt dem | Astrolabio / vnd  
dem gebrauch desselbigen / durch welches Nati-  
uiteten gestellt / Gluck / Vngluck / Kranckheiten  
/ Tod vñ Leben / Krieg / Tew | rung / vnd anders  
/ nach Astronomischer weis / und Mathematischer  
Rechnung Or- | dentlich / vnd baldt kan Calculirt  
/ vnd beschrieben / vnd ohne sunderliche |  
müeh erkandt werden. | [ornament] | Gemeinen  
Vatterlandt zñ güt erfunden / Vnd beschrieben  
/ | Durch / Leonhardt Thurneisser zum Thurn /  
von Basel Churfürst= | lichen Brandenburgischern  
bestalten leibs Medico. | Gedruckt zu Berlin im  
Grawen Closter Anno 1575.

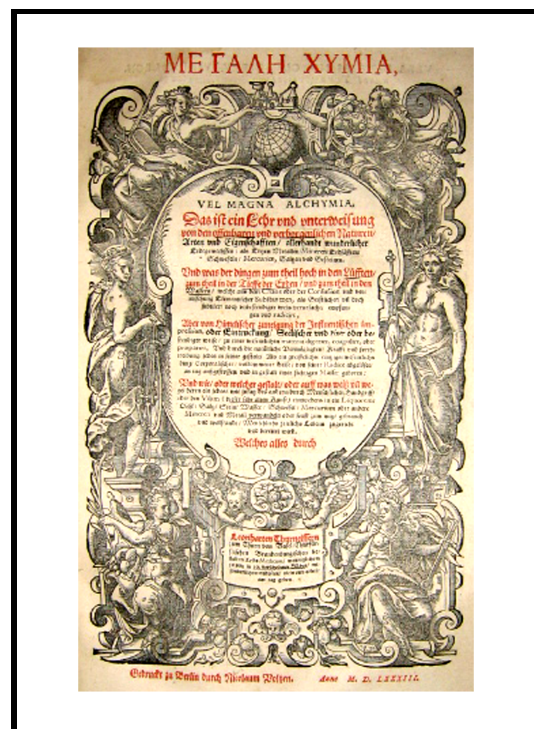
4°: x<sup>6</sup> xx<sup>4</sup> A-Z<sup>6</sup> Aa-Bb<sup>6</sup> Cc<sup>8</sup>; 168ℓ.; [24] p., 2-156 numb.ℓ., 1ℓ., portrait. Title in red and black.

RARE. This book was printed at Thurneysser's own press. Like the *Archidoxa*, it is written in verse. The author states in the dedication that the *Archidoxa* and the *Quinta Essentia*, his second work are written

in such an obscure or enigmatical style, that he would require to add an elucidation. This is contained in the present work, but the explanation is more obscure than the original, or, as Moehsen has it, it is "a wilderness of words without meaning."

This book is considered as part two of the *Archidoxa* of the same year.

REFERENCES: BL: [837.l.17.]. • Ferguson, *Bibliotheca Chemica*, 1906: 2, 450-1. • Moehsen, *Leben Leonhard Thurneissers zu Thurn*, 1976: pp. 77, 106 & 190-1. • NUC: 593, 415-7 [NT 0209028]. • Wellcome Catalog (Books): 1, no. 6296.



MAGNA ALCHYMIA, 1583

#### Magna Alchymia

#### 4627. — German, 1583 [First edition].

MEFAAH XYMIA, Vel Magna Alchymia. Das ist ein Lehr vnd vnterweisung von den offenbaren vnd verborgenlichen Naturen, Arten vnd Eigenschaften, allerhandt wunderlicher Erdtgewechsen, als Ertzen, Metallen, Mineren, Erdsäfften, Schwefeln, Mercurien, Saltzen vnd Gesteinen. Vnd was der dingen zum theil hoch in den Lüfften, zum theil in der Tieffe der Erden, vnd zum theil in den Wassern, welche aus dem Chaos oder der Confusion vnd vermischung Elementischer Substantzen, als Geistlicher, vñ doch subtiler, noch vnbeständiger weis verursacht, empfangen vnd radicirt. Aber



von Himelischer zuneigung der In Quentischen impression, oder Eintrückung, Seelischer vnd Fixer oder bestendiger weise, zu einer wesentlichen materia digerirt, coagulirt, oder præparirt, Vnd durch die natürliche Vermögligkeit, Krafft vnd forhtreibung, jedes in seiner gestalt, Als ein greiffelichs, einzigs, wesentlichs ding, Corporalischer, vollkommener weise, von seiner Radice abgelöset, an tag aufgestossen, vnd in gestalt einer sichtigen Massæ geboren: Vnd wie, oder welcher gestalt, oder auff was weiss vñ wege, deren ein jedes, mit zusatz des andern, durch Menschlichen Handgriff, oder den Vsum (dieser sehr alten Kunst) einwreders in ein Liquorem, Oehl, Saltz, Stein, Wasser, Schwefel, Mercurium oder andere Mineren vnd Metall verwandelt, oder sonst zum nutz, gebrauch vnd wolstandt, Menschlichs zeitlichs Lebens zugericht vnd bereitet wird. Welches alles durch Leonharten Thurneissern zum Thurn von Basel, Churfürstischen Brandenburgischen bestalten Leibs Medicum, menniglichem zu nutz in 30. verschiedener Bücher, mit sonderlichem vnkosten, vleis vnd arbeit am tag geben. Gedruckt zu Berlin durch Nicolaum Voltzen. Anno M.D.LXXXIII.

2°: \*2 )(2 )2 A-Z2 Aa-Qq2 (Qq2 blank); 84ℓ.; [12], 144, [12] p. Title in red and black in an elaborate woodcut border. Portrait and small woodcuts in the text. The portrait is followed by a number of texts in Ethiopic, Syriac, and other languages, the knowledge of which Thurneisser made great display at every opportunity.

RARE. The two parts here are bound together represent title editions of books that first appeared in 1583 and 1587 (Sudhoff 213). They represent two of the most important alchemical books, based on astrological themes and written in an obtuse allegorical style by the Basler alchemist and physician L. Thurneisser. The *Magna Alchymia* is of a more practical character than the author's other works and contains much valuable information on earlier alchemical authors and techniques they used in their experiments. These books therefore link alchemy to chemistry and mineralogy together with astrology. The text treats sulfur, salts of ammonia, aluminum, salpeter, mercury, and metals. An entire chapter treats the origin of the minerals and ores, and a long section on astrology and horoscopes.

REFERENCES: BL: [1487.1.6.]. • BM/STC German: p. 862. • Bolton, *Bibliography of Chemistry*, 1893: p. 873. • Duveen, *Bibliotheca Alchemica et Chemica*, 1965: p. 579. • Ferguson, *Bibliotheca Chemica*, 1906: 2, 452. • Moehsen, *Leben Leonhard Thurneissers zu Thurn*, 1976: pp. 76, 105 & 195-6. • NUC: 593, 415-7 [NT 0209041]. • Partington, *History of Chemistry*, 1961-70: 2, p. 155. • Schmieder, *Geschichte der Alchemie*, 1927: p. 286, 2. • Spitzer, G., *Und die Spree führt Gold. Leonhard Thurneisser zum Thurn Astrologe - Alchemist - Arzt und Drucker im Berlin des 16. Jahrhunderts*. Berlin, 1996. 145 p., illus. [ISBN 0388268786]: [p. 89-91]. • Sudhoff, *Bibliographia Paracelsica*, 1894: no. 364. • Wellcome Catalog (Books): 1, no. 6302.

4628. 2nd edition, 1587: *Magna Alchymia*. Das ist ein Lehr vnd vnterweisung von den offenbaren vnd verborgenen Naturen, Arten vnd Eigenschaften, allerhandt wunderlicher Erdtgewechssen, als Erzten, Metallen, Mineren, Erdsäften, Schwefeln, Mercurien, Saltzen vnd Gesteinen. Vnd was der dingen zum theil hoch in den Lüfften, zum theil in der Tieffe der Erden, vnd zum theil in den Wassern, welche auß dem Chaos oder der Confusion vnd vermischung Elementischer Substantzen, als Geistlicher, vnd doch subtiler, noch vnbestendiger weiß verursacht, empfangen vnd radicirt. Item Onomasticvm vnd Interpretatio oder außführliche Erklerung, Etliche frembde vnd (bey vielen hochgelarten, die der Lateinischen vnd Griechischen Sprach erfahren) vnbekante Nomina, Verba, Prouerbia, Dicta, Sylben, Character, vnd sonst Reden. Deren nicht allein in des theuren Philosophi vnnnd Medici Aurelij Theophrasti Paracelsi von Hohenheim, Sonder auch in anderer Authorum Schrifften, hin vnd wider weitleufftig gedacht, welche hie zusammen, nach dem Alphabet verzeichnet. Durch Leonhardt Thurneissern zum Thurn, Churfürstischen Brandenburgischen bestalten Leibs Medicum menniglichem zu nutz, mit sonderlichem vnkosten, vleiß vnd arbeit am tag geben, Neben Einfurung etliche hochberümbter Menner Opiniones oder meinungen von dergleichen künstlein vnd de Lapide Philosophorum. Gedruckt zu Cölln, Durch Johannem Gymnicum im Einhorn. M.D.LXXXVII.

2°: \*2 )(2 )2 A-Z2 Aa-Qq2; )(2 \*2 A-Z2 Aa-Zz2 a2; 184ℓ.; [12], 144, [12] p.; [12], 188 p., 8 plates.

VERY RARE. A reissue of the 1583 edition with a new title page. In addition, the *Onomasticon* of PARACELUS (Sudhoff, no. 194) has been appended.

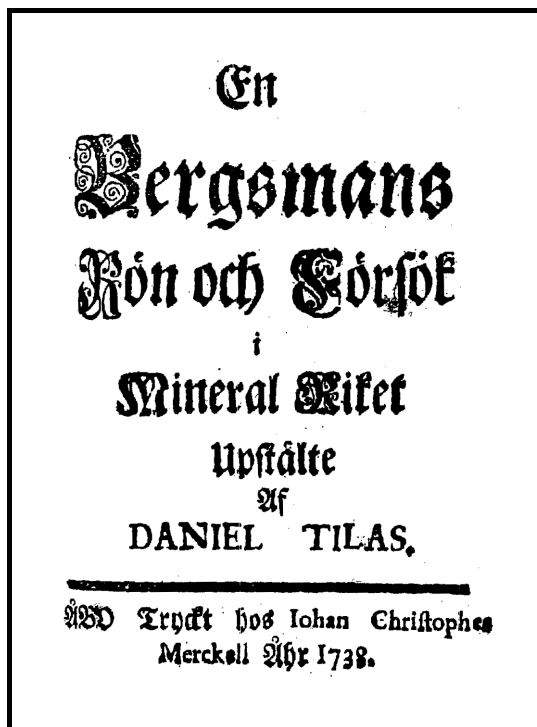
REFERENCES: BL: [no copy listed]. • Gatterer, *Mineralogischen Literatur*, 1798-9: 2, 290. • LKG: XVI 17. • Moehsen, *Leben Leonhard Thurneissers zu Thurn*, 1976: pp. 187 & 196-7. • Shaaber, *Sixteenth Century Imprints*, 1976: T-217 [part one only]. • Sudhoff, *Bibliographia Paracelsica*, 1894: no. 213.

**TILAS, Daniel.** (BORN: Gammelbo, Västmanland, Sweden, 11 March 1712; DIED: Stockholm, Sweden, 17 October 1772) *Swedish mineralogist & mining engineer.*

Tilas was first educated at home before being sent to Uppsala University in 1723 from which he graduated in 1732. He began as an assistant in the office of mining industry and through out the remainder of his life held many positions related to the mining industry of Sweden, including instructor at the Swedish Mining Academy. In 1739 he was elected a member of the Swedish Academy of Science.

REFERENCES: DSB: 13, 409-10 [by N. Spjeldnaes]. • Falk, E.V., "Daniel Tilas och Fredrik Gyllenborg," *Personhistorisk Tidskrift*, 36 (1936), 19-49. • Jägerskiöld, O., *Daniel Tilas Anteckningar från riksdagen 1769-1770*. Stockholm, 1977. 334 p. [Published as: *Kungl. Samfundet för utgivande av handskrifter rörande Skandinaviens Historia*, Handlingar del 3.; ISBN: 9185104035]. • Jakobsen, A., "Daniel Tilas og Norge," *Nord.Tidsskr.*, Stockholm, 33 (1957), 92-106. • Lambrecht & Quenstedt, *Catalogus*, 1938: 430. • Poggendorff: 2, cols. 1106-7. • Regnell, *Paleontology in Sweden*, 1948. • Sarjeant, *Geologists*, 1980: 3, 2268 & Suppl. 2 (1996), 2, 1142. • SBA: Scandinavian Biographical Archive: B-336, 300-308. • Stenklo, A., "Daniel Tilas och en lavering," *Bergslaget, Stockholm*, 13 (1958), no. 13, 17-9. • Svenskt Biografiskt Handlexikon: 2, 621-2, profile. • WBI. • Zenzén, N., "Ein Briefwechsel im Jahre 1671 zwischen Daniel Tilas und Probst Abraham Miödh," *Geologiska föreningen i Stockholm förhandlingar*, 49 (1927), 259-72. • Zenzén, N., "Daniel Tilas om geologien i Svenska-Norska gränstrakterna," *Geologiska föreningen i Stockholm förhandlingar*, 53 (1931), 27-46. • Zenzén, N., "Om Daniel Tilas' memorial 1747 rörande Nasafjäll, Kedkevara (Silpat Jakko) och Rautäive," *Blad f.bergshant.vänner*,

1939, 189-97. • Zenzén, N., "Geologiska kartor och geologisk kartläggning i Sverige före upprättande av Sveriges Geologiska Undersökning," *Geologiska Föreningen i Stockholm Förhandlingar*, 47 (1925), 311-343. • Zenzén, N., "On the first use of the term 'Feldspat' (Feldspar, etc.) by Daniel Tilas," *Geologiska föreningen i Stockholm förhandlingar*, 47 (1925), 385-405.



EN BERGMANS, 1738

4629. — Swedish, 1738.

En | Bergsmans | Rön och Försök | i | Mineral Riket | Upstälte | Af | Daniel Tilas. | [rule] | Åbo, Tryckt hos Iohan Christophes | Merckell Åhr 1738.

8°:  $\pi^2$  A-B<sup>8</sup>; 18 $\ell$ .; [1]-36 p.

CONTENTS: [1], Title page.; [2], "Detta wackra arbete/omen..."—signed H.D. Spöring, 13 December 1737.; [3-4], Dedication to Alexander Funk and Gustaf Gottfried Reuterholm, signed Daniel Tilas.; [5]-36, Text.

RARE. The author was a pioneer in prospecting for ore, and this book, "A Mining Expert's Experience in Mineralogy" outlines his methods. He believed the best method was to search for erratic blocks, because blocks were larger and more numerous closer to their place of origin. Using this procedure the very rich field near Skellefteå was found, and geological maps were drawn in accordance with this principle.

REFERENCES: BL: [B.257.(4.)]. • Frängsmayr, T., "Swedish science in the eighteenth century," *History of Science*, 12, 29-42: 32-33 [Swedish Science in the 18th c.]. • LKG: XII 17.

4630. — Swedish, 1742 [First edition].

Stenrikets | Historia | Utförd | I det wid Præsidi  
afläggande | håldne | Talet | In för Kongl.  
Svenska Wetenskaps Akademien | den 14. April  
1742. | Af | Herr Dan. Tilas. | [ornate rule] |  
På Kongl. Academiens befallning, | [double rule]  
| Tryckt i Stockholm, af Lorentz | Ludvig Grefing.

8°: [1]-32 p. PAGE SIZE: 190 x 110 mm. VERY

SCARCE.

REFERENCES: BL: [965.i.16.(7.)]. • LKG: XII 18a. • SWIM: 30, nos. 22 & 55.



STENRIKETS HISTORIA, 1748

4631. 2nd edition, 1748: Stenrikets | Historia, | Utförd | I det wid Præsidi afläggande | Håldne | Talet | In Feor | Kongl. Svenska Wetenskaps | Akademien | Den 14. April, 1742. | Af | Herr. Dan. Tilas. | [ornament] | [rule] | På Kongl. Vetenskaps Academiens befallning. | Andra gången uplagdt. | [wavy rule] | Stockholm, hos Lars Salvius. | 1748.

8°: A-B<sup>8</sup> C<sup>1</sup>; 17 $\ell$ .; [1]-34 p. Head- and tail pieces. PAGE SIZE: 188 x 118 mm.

CONTENTS: [1-2], Title page, verso Blank.; [3]-34, Text, beginning "Mine Herrar!"

RARE. In his *Stenrikets Historia*, Tilas outlines his views on the mineral kingdom of Sweden. He presented this paper on the 14 April 1742 to the Royal Swedish Academy of Science of which he was then president. This 1748 edition appears to be a reissue of the original text with only minor additions.

REFERENCES: BL: [no copy listed].

Auserlesene Sammlung zum Vortheil der Staatswirthschaft, der Naturforschung und des Feldbaues ... aus dem Schwedischen übersetzt von C.S.G. [Gottlieb Sigmund

## TILINGIUS

Gruner] mit einer Vorrede von Hrn. von Haller. (Basel, 1763).

See: Gruner, Gottlieb Siegmund.

**4632. German transl., 1795:** Die | Geschichte | des | Steinreiches; | ausgeführt in einer | bey der ablegung des vorsizes | in der öngl. Akademie der Wissenschaften | zu Stockholm | den 11 April 1742; | gehaltenen | Rede | von | Daniel Tilas, | Bergmeister und Beysizer bey dem königl. | Bergcollegium.

8°: [2], p. 249-290. PAGE SIZE: 186 x 114 mm.

CONTENTS: [2 pgs], Title page, verso blank.; 249-290, Text.

RARE. Translated from *Stenrikets Historia* (Stockholm, 1748), this is a reprint from some unknown journal.

D.C.G. Gröning. (BORN: ; DIED: ) .

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[  
[ BIOGRAPHY NEEDED ]  
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REFERENCES: BL: [966.h.6.]. • LKG: XII 19. (Gröning)

**4633. — Swedish, 1765** [First edition].

Utkast | Til | Sveriges | Mineral-Historia. | [rule] | Framlagdt uti det | Tal, | som vid Præsidi Afläggande Hölts | in för Kongl. Svenska Vetenskaps Akademien | Den 6 Februarii 1765. | Af | Daniel Tilas, | Landshöfding, samt Riddare af K.N.O. | [vingette: an elderly man planting a palm] | [rule] | Stockholm, | Tryckt hos Directeuren Lars Salvius, 1765.

8°: A-F<sup>8</sup> G4; 52ℓ.; [1]-104 p. At page 66 a folding plate, "Stenen i Grönan Dahl." PAGE SIZE: 195 x 110 mm.

CONTENTS: [1-2], Title page, verso blank.; [3]-102, Text.; [103]-104, "Svar, Gifvet på Kongl. Vetensk. Academiens Vågnar, Af Dess Secreterare."

RARE. This book based on the author's solid observations describes the mineral resources of Sweden. Tilas had himself visited a large portion of country, and noted above the position of the mountains containing ore minerals, the dominant constellation.

REFERENCES: *Alt. gel. Merc.*: 1766, 88. • *Berlinische Sammlungen*: 3, 552. • BL: [965.k.3.(7.)]. • *Celle de Berl.*: 1766, 117. • Engewald, Gisela-Ruth. "Einige Gedanken zum Erscheinen der ersten farbigen petrographischen Karte Sachsens von Johann Friedrich Wilhelm von Charpentier vor 200 Jahren", *Zeitschrift für geologischen Wissenschaften*, 8 (1980), no. 2, 159-69, 5 illus. • *Gaz. Litt. de l'Eur.*: (Dec 1765), 348. • *Göttingische gelehrte Anzeigen*: 1766, 469. • *Greifsw. krit. Nachr.*: 1766, 8. • LKG: XIV 791.

**4634. German transl., 1767:** Des | Freyherrn Daniel Tilas, | [...3 lines of titles and memberships...] | Entwurf | einer schwedischen | Mineralhistorie, | in einer | den 6ten Febr. 1765 in der Königlich= | Swedischen Akademie der Wissenschaften | in Stockholm bey Abtretung der | Präsidentenstelle | gehaltenen Rede. | Aus dem Swedischen übersetzt | von | Johann Beckmann. | [rule] | Leipzig, | bey Weidmanns Erben und Reich, | 1767.

8°: 134 p., folding plate.

VERY RARE. German translation by Johann Beckmann [see note below] of *Utkast til Sveriges Mineral-Historia* (Stockholm, 1765).

**Johann Beckmann.** (BORN: Hoya near the Weser, Germany, 4 June 1739; DIED: Göttingen, Germany, 3 February 1811) *German biologist.* Beckmann studied at Göttingen from 1758 to 1762. He then taught at the German Gymnasium in St. Petersburg from 1765-6. After an extensive trip through Sweden and Denmark, Beckmann secured a position at the University of Göttingen, where

he remained. He was a member of the Gesellschaft der Wissenschaften [Society of Science] in Göttingen 1776, Leopoldina 1761, and Baryerischen Akademie der Wissenschaften 1809.

REFERENCES: *Berlinische Sammlungen*: 3, p. 552. • BL: [954.a.25.]. • Engewald, Gisela-Ruth. "Einige Gedanken zum Erscheinen der ersten farbigen petrographischen Karte Sachsens von Johann Friedrich Wilhelm von Charpentier vor 200 Jahren", *Zeitschrift für geologischen Wissenschaften*, 8 (1980), no. 2, 159-69, 5 illus. • *Erlanger gelehrte Beyträge*: p. 205. • *Göttingische gelehrte Anzeigen*: p. 619. • *Greifsw. krit. Nachr.*: p. 201. • *Journal encyclopédique*: 3, pt. 3, p. 146. • LKG: XIV 792a. (Beckmann) ADB: 2, 238-9. • Beckert, M., *Johann Beckmann*, Leipzig, 1983. [Published as: *Biographien hervorragender Naturwissenschaftler, Techniker und Mediziner*, 68; 119 p., portrait]. • *Catalogue of Portraits of Naturalists*: 165 [3 portraits listed]. • DSB: 1, 554-5. • Mayerhöfer, *Lexikon der Naturwissenschaften*, 1958-75: 403. • NDB: 1, 727-8. • Poggendorff: 1, cols. 127-8. • Wagenitz, *Göttinger Biologen*, 1988: 22-3. • Zischka, *Allgemeines Gelehrten-Lexikon*, 1961: 63.

**TILINGIUS, Matthias.**

REFERENCES: Poggendorff: 2, col. 1109.

**4635. — Latin, 1674.**

Matthiæ Tilingii, | [...3 lines of titles and memberships...] | Prodomus | Praxeos | Chimiaticæ. | Seu | Liber Singularis, | In quo præscribitur variorum My- | steriorum Chemicorum & Medicamento- | rum è Metallis, Mineralibus & Vegetabilibus, non | vulgarium, verum selectissimorum, ac secretissimo- | rum (in quibus tota Praxis Chimiatica consi- | stit, & quæ in corporis humani partium principalio- | rum morbis, etiam deploratissimis, ac ab omnibus | ferè Medicis derelict is præsentissimum, tutissimum ac | jucundissimum auxilium præstant) conficiendorum | certa Ratio: unà cum ipsorum Virtute, Usu, Dosi, | Notis, Observationibus, Exemplis quàm plurimis | & Indice locupletissimo. | [ornate rule] | Rintellii, | [rule] | Sumptibus Thomæ Henrici Hauen- | steinii, Bibl. Hanov. Hildes. & Cellensis. | Typis G.C. Wächter/ Acad. Typ. Anno 1674.

8°: [30], 1004 (i.e., 1008), [52] p., 6 foldingℓ. RARE.

REFERENCES: VD17: 23:240598W.

**4636. — Latin, 1681.**

[In black:] Matthiæ | [in red:] Tilingii, | [...in black: 6 lines of titles and memberships...] | [in red:] Cinnabaris Mineralis, | [in black:] | Seu | [in red:] Minii Naturalis | [in black:] Scrutinium Physico- | Medico-Chymicum, | [in red:] Ad normam & formam Sacri Ro- | [in black:] mani Imperii Academiæ Naturæ Curiosorum | directum. | [ornament] | Francofvrit Ad Moenvm. | [in red:] Sumptib. Jacobi Gothofredi Seyleri. | [in black:] Typis Balth. Christ. Wustii. | [rule] | Anno M DC LXXXI.

8°: [12], 250 (i.e., 248) p. Title in red and black.  
RARE.

REFERENCES: BL: [957.m.32.]. • CBN: 189, col. 334. • LKG: XVI 457\*. • VD17: 3:625179T.

**TILLMAN, Samuel Escue.** (BORN: 1848; DIED: 1942)  
*American army educator & scientist.*

REFERENCES: ABA: I 1611, 44-51; II 662, 395-398. • Adams, *Dictionary of American Authors*, 1904. • *Herringshaw's National Library of American Biography*. • WBI. • *Who Was Who in America*: 2, ??.

**4637. — English, 1900** [First edition].

A Text-Book of important Minerals and Rocks. With tables for the determination of minerals. New York, J. Wiley & Sons, 1900.

8°: viii. 176 p.

VERY SCARCE. An attempt to present to the student a brief story of the characteristics of the common minerals and rocks. The plan discusses the elements and geometrical crystallography in which only the fundamental forms of the six systems are described. Then the physical and chemical properties of minerals are discussed, followed by descriptions of about 75 of the most common mineral species. This is reinforced by the descriptive characters placed in a tabular form. A final section treats the most common rocks.

REFERENCES: *American Naturalist*: 36 (April, 1902), no. 424, p. 344-346. • BL: [07108.h.30.]. • NUC. • *Science*: 13 (1901), no. 320, p. 267-268. • *USGS Library Catalog*.

**4638. 2nd edition, 1904:** A Text-Book | of | Important Minerals | And Rocks. | With | Tables for the Determination | of Minerals. | By | S.E. Tillman, | Professor of Chemistry, Mineralogy, and Geology, | U.S. Military Academy, West Point, N.Y. | Second Edition. | First Thousand. | New York: | John Wiley & Sons. | London: Chapman & Hall, Limited. | 1904.

8°: viii. 176 p. VERY SCARCE.

Reissued, 1913.

REFERENCES: BL: [no copy listed]. • NUC. • *USGS Library Catalog*.

**TITIUS, Carl Heinrich.** (BORN: Rosswein, Saxony, Germany, 1744; DIED: Dresden, Germany, 28 September 1813) *German physician.*

Titius graduated from the University of Wittenberg in 1766. From 1768 onwards, he was professor of *Materia Medica* and surgery at the Collegio in Dresden. In 1776, he was appointed inspector of the Royal Saxon *Naturalien-Galerie* in Dresden.

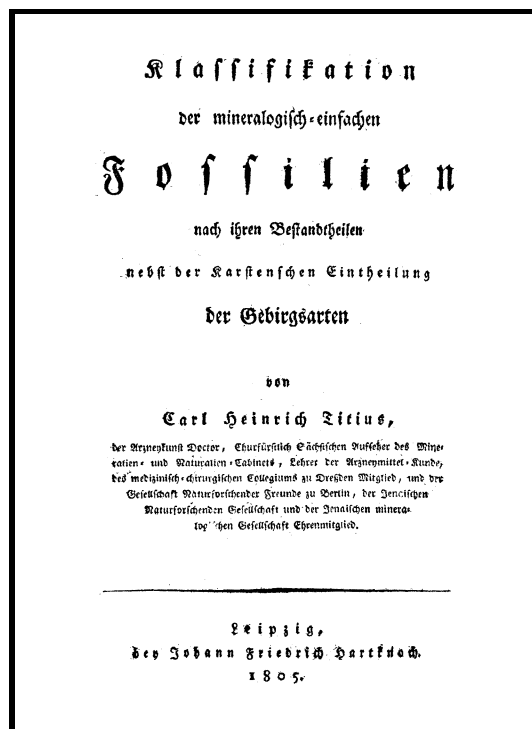
REFERENCES: DBA: I 1275, 427-430; II 1310, 459. • Fischer, *Mineralogie in Sachsen*, 1939. • Hamberger & Meusel, *Gelehrte Deutschland*, 1796-1834. • Meusel, *Verstorbenen Deutschen Schriftsteller*, 1802-16. • Poggendorff: 2, col. 1112. • WBI. • Wilson, *History of Mineral Collecting*, 1994: 195.

**4639. — German, 1805.**

Klassifikation | der mineralogisch=einfachen | Fossilien | nach ihren Bestandtheilen | nebst der Karstenschen | Eintheilung | der Gebirgsarten | von | Carl Heinrich Titius, | [...6 lines of titles and memberships...] | [tapered rule] | Leipzig, | bey Johann Friedrich Harttnoch. | 1805.

8°: )(8 A-2A8 2B6; 206ℓ.; [i]-xvi, [1]-395, [1] p.

PAGE SIZE: 186 x 120 mm.



KLASSIFICATION, 1805

CONTENTS: [i-ii], Title page, verso "Defendat quod quisque ..."; iii-vi, Dedication to Friedrich Wilhelm August Carl.; vii-xiv, "Vorrede."—dated August 1804.; [xv]-xvi, "Verzeichniß | der amgeführten Autoren.;" [1]-310, Text.; [311]-342, "Register.;" [343]-395, "Table des Fossiles.;" [1 page], Blank.

VERY SCARCE. Describes the author's mineral classification scheme.

REFERENCES: BL: [no copy listed]. • LKG: XII 164.

**4640. — German, 1821** [Sale catalog].

Auctions=Verzeichniß einer weil. Herrn Hofrath Dr. Titius, Inspector der Königl. Sächs. Naturalien=Gallerie zugehörigen, sehr vollständigen und gut gehaltenen Mineralien=Sammlung. Dresden, 1821.

2 parts. 8°: 286 p.

RARE. Auction catalog of Titius' mineral collection. As a collector, he followed Werner's theories exclusively, and the arrangement of the collection is into oryctognosty and geognosy sections, with each section subdivided according to geographical origin. Part one of the auction describes 4,984 lots, while a second portion enumerates an additional 1,586 lots.

**Related work?:** *Auszug aus dem Reise-Journal Herrn C. H. Titius von seiner vorzüglich zu Besichtigung fremder Naturalien-Sammlungen in dem Jahr 1777 durch Deutschland, nach Holland, England und Frankreich angestellten Reise.* [Leipzig, 1780]. [BL Shelfmark: 303.b.11.].

REFERENCES: BL: [no copy listed]. • Freiesleben, *Sächsische Mineralien-Verzeichnisse*, 1828: no. 77. • Wilson, *History of Mineral Collecting*, 1994: 226.

# TONDI

## TOKYO, Japan. Teikoku Hakubutsukwan.

Catalogue of Mineralogical, Lithological and Paleontological Specimens in the Natural History Department of the Imperial Museum, &c (Tokyo, 1891).

See: Nishi, M.

**TONDI, Matteo.** (BORN: Sanseverino, near Naples, Italy, 1762; DIED: Naples, Italy, 17 November 1835) *Italian mineralogist & mining expert.*

Graduating from the Schemnitz Mining Academy, Tondi started his career as adjunct to Dolomieu at the Muséum d'Histoire Naturelle in Paris. Later he became general inspector of the Naples water works and professor of oryctography at the University of Naples.

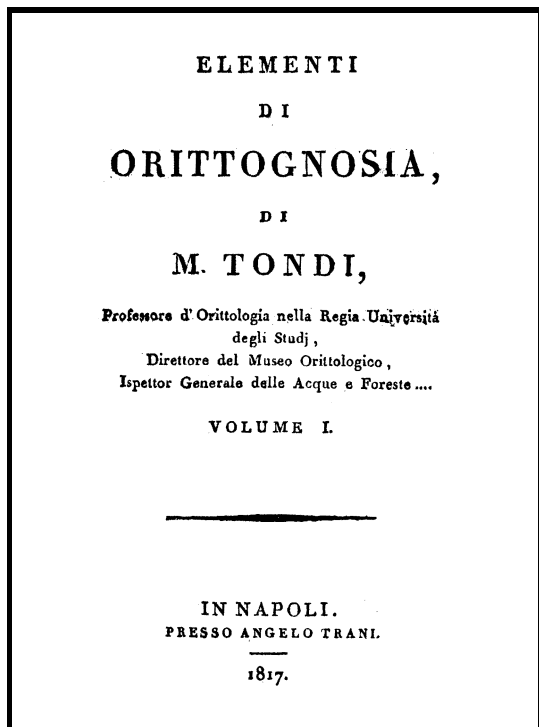
REFERENCES: Poggendorff: 2, cols. 1116-7. • Vaccari, *Mineralogy and Mining in Italy*, 1998.

## 4641. — French, 1811.

Tableau synoptique d'oreognosie, ou connoissance des montagnes on roches. Paris, 1811.

8°: [4], 23 p. VERY SCARCE.

REFERENCES: BL: [953.e.12.]. • LKG: XIII 253.



ELEMENTI DI ORITTOGNOSIA, 1817

## 4642. — Italian, 1817 [First edition].

Elementi | Di | Orittognosia, | Di | M. Tondi, | Professore d'Orittologia nella Regia Università | degli Studj, | Direttore del Museo Orittologico, | Ispettor Generale delle Acque e Foreste .... | Volume I. [-II.] | [tapered rule] | In Napoli. | Presso Angelo Trani. | [rule] | 1817.

2 vols. [VOL 1] A-N<sup>8</sup> O<sup>4</sup>; 292ℓ.; [1]-584 p. [VOL 2] A-Z<sup>8</sup> 2A<sup>8</sup> 2B<sup>7</sup> ★<sup>10</sup> 2C<sup>10</sup>; 220ℓ.; [1]-397, [1], I-XIX, [1], I-XXII p. PAGE SIZE: 198 x 120 mm.

CONTENTS: [Vol 1] [1-2], Title page, verso "Avvertimento."; 3-19, "Nozioni Preliminari."; 20-584, Text.

[Vol 2] [1-2], Title page, verso "Avvertimento."; 3-397, Text.; [1 page], Blank.; I-XI, "Indice | Del Primo Volume."; XII-XIV, "Nomi Francesi."; XV-XIX, "Nomi Tedeschi."; [1 pg], Blank.; I-XI, "Indice | Del Secondo Volume."; XII-XIV, "Nomi Francesi."; XV-XXII, "Nomi Tedeschi."

SCARCE. Based on Haüy's *Tableau Comparatif* (Paris, 1809) for chemistry, Reuss' *Lehrbuch der Mineralogie* (Leipzig, 1801-6), Leonhard's *Handbuch einer allgemeinen topographischen Mineralogie* (Leipzig, 1805-9), and Leonhard's *Taschenbuch für die gesamte Mineralogie* (1807-1812).

Second edition, 1827: *Elementi di Orittognosia. Con tavole XLI. incise in rame. Seconda edizione.* Napoli, 1827. 3 volumes. [BL Shelfmark: 726.k.18.].

REFERENCES: BL: [no copy listed]. • Vaccari, *Mineralogy and Mining in Italy*, 1998. • Ward & Carozzi, *Geology Emerging*, 1984: no. 2179.

4643. 1824: *Elementi di Oreognosia.* Napoli, Tip. C. Cataneo, 1824.

8°: 521 p., 3 plates. VERY SCARCE.

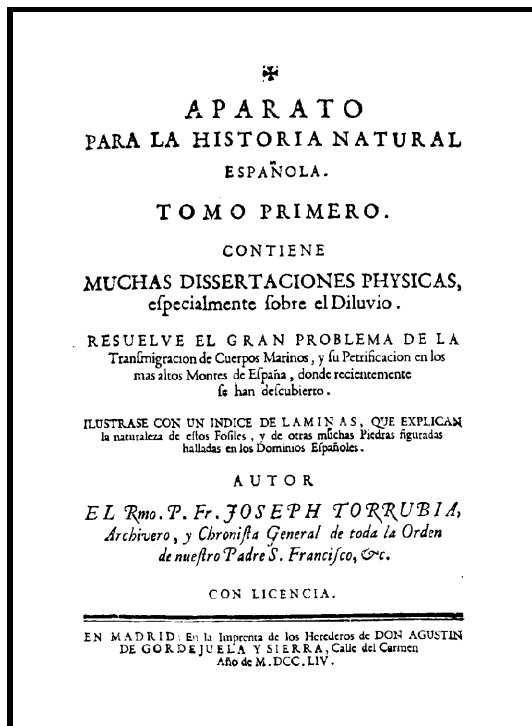
REFERENCES: BL: [726.k.20.]. • Vaccari, *Mineralogy and Mining in Italy*, 1998: [title page reproduced]. • Ward & Carozzi, *Geology Emerging*, 1984: no. 2180.

4644. 2nd edition, 1827: *Elementi di Orittognosia. Con tavole XLI. incise in rame. Seconda edizione.* Napoli, 1827.

3 vols.

VERY SCARCE. The pagination of vol. 1 and 2 is continuous.

REFERENCES: BL: [726.k.18.].



APARATO, 1754

**TORRUBIA, José.** (BORN: 1698; DIED: Rome, Italy, 1761) *Spanish Jesuit & naturalist.*

REFERENCES: ABE: I 960, 320-323; II 896, 105-107. • WBI.

**4645. — Spanish, 1754** [First edition].

\* | Aparato | Para La Historie Natural | Española. | Tomo Primero. | Contiene | Muchas Dissertaciones Physicas, | especialmente sobre del Diluvio. | Reduelve El Gran Problema De La | Transmigracion de Cuerpos Marinos, y su Petrificacion en los | mas altos Montes de España, donde recientemente | se han descubierto. | Ilustrato Con Un Indica De Laminas, que explican | la Naturealeza de estos Fosiles, y de otras muchas Piedras figuradas | halladas en los Dominios Españoles. | Autor | El Rmo. P.Fr. Joseph Torrubia, | [...2 lines of titles and memberships...] | Con Licencia. | [double rule] | In Madrid, En la Imprenta de los Herederos de Don Augustin | De Gordejuela Y Sierra, Calle del Carmen | Año de M. DCC. LIV.

2°: 204, [34] p., 10 plates (numbered I-XIV).

VERY SCARCE. All published. This is the first work devoted to Spanish fossils and minerals. The author had travelled in America and the Philippines, and had collected fossils and minerals from various lands. The text provides a complete list of all the localities where specimens had been found, and provides illustrations of many on the fourteen large plates. The author includes references to contemporary and older geological literature throughout the text.

Facsimile reprint, 1994: *Aparato para la historia natural española*. Madrid : Instituto de Geología Económica, Consejo Superior de Investigaciones Científicas-Universidad Complutense de Madrid, 1994.

Reprint of the 1754 edition and part of the 1773 German translation. Published in celebration of the 10th anniversary of the founding of the Sociedad Española de Paleontología, in conjunction with the X Jornadas de Paleontología, Madrid, 3-5 de noviembre de 1994. No more published. [USGS, 609 qT64 1994.]

REFERENCES: BL: [459.a.27.]. • Calvo Rebollar, *Bibliografía Mineralogía Españolas*, 1999: pp. 80-3. • LKG: XIV 818. • Maffei & Rua Figuera, *Bibliografía Mineral*, 1871-2: 2, no. 2564.

**4646. 2nd edition, 1765:** *Aparato para la Historie Natural Espannola*. Tomo Primero. ... Madrid, 1765.

8°: VERY SCARCE.

REFERENCES: BL: [no copy listed].

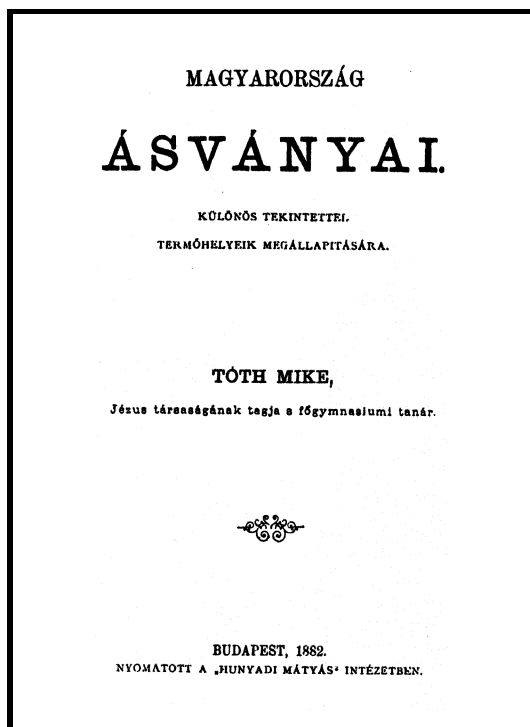
**4647. German transl., 1773:** Des Vaters | Josephs Torrubia | [...2 lines of titles and memberships...] | Vorbereitung | zur | Naturgeschichte | von | Spanien. | Mit vierzehn Kupfertafeln versehen | welche viele Foßilien vorstellen, | die | in den spanischen Ländern verschiedener Welttheile | gefundne werden. | [ornate rule] | Aus dem Spanischen übersetzt, | und mit Anmerkungen begleitet, nebst Zusätzen, und Nachrichten, | die neueste portugiesischen Litteratur betreffend; | von | Christoph Gottlieb von Murr. | [ornate rule] | Halle, | bey J.J. Gebauers Wittwe und Johann Jacob Gebauer, 1773.

4°: a-c4 d2 A-S4 T2 (a3 missigned a5; d2 blank); 88ℓ.; [1]-24, [4], [1]-147, [1] p., 14 folding plates (numbered I-XIV). PAGE SIZE: 232 x 190 mm.

CONTENTS: [1-2], Title page, verso 5 lines of quotation, signed L. Ann. Seneca.; [3]-[4], Dedication, signed C.G. von Murr.; [5]-24, "Vorbericht | des Uebersetzers."—signed C.G. von Murr.; [2 pgs], "Inhalt des Werkes."; [2 pgs], Blanks.; [1]-144, Text.; [145]-147, "Register."; [1 pg], Errata.

SCARCE. The only translation of Torrubia's *Aparato para la Historia Natural Espanola* (Madrid, 1754), the first work devoted to Spanish minerals and fossils in the Spanish language. As a Franciscan priest, Torrubia had travelled in Spanish America and the Philippines. The minerals, stones and fossils he collected there are partly shown on the plates, which show a wide variety of minerals, crystals, fossil shells, dendritic slabs, etc.. The book also contains a list of all localities in the world where mineals and fossils had been discovered.

REFERENCES: BL: [788.c.38.]. • BMC: 4, 2126. • LKG: XIV 819a. • Nissen (ZBI): no. 1419. • Ward & Carozzi, *Geology Emerging*, 1984: no. 2188. • Zittel, *History of Geology*, 1901: p. 108.



MAGYARORSZÁG ÁSVÁNYAI, 1882

**TÓTH, Mike Mihály.** (BORN: Ór, Hungary, 25 Septamber 1832; DIED: Kalocsa, Hungary, 3 October 1932) *Hungarian mineralogist.*

REFERENCES: *Magyar Életrajzi Lexikon*: 2, ??, • Papp, *Magyar Topografikus*, 2002: p. 416, portrait.

**4648. — Hungarian, 1882.**

Magyarország | Ásványai. | Különös Tekintettel Termőhelyeik Megállapítására. | Tóth Mike, | Jézus társaságának tagja s főgymnasiumi tanár. | [ornament] | Budapest, 1882. | Nyomattot A „Hunyadi Mátyás” Intézetben.

## TOWNSON

8°: 565 p.

**RARE.** This is the most extensive and only complete topographical mineralogy of the Hungarian empire written prior to the first World War. The title translates to: The minerals of Hungary, with special regard to their determination of their occurrences.

**Facsimile reprint, 2000:** *Magyarország ásványai*. Kiadós, 2000. 565, 49 p.

**REFERENCES:** BMC: 5, 2126. • Spencer, *Catalogue of Topographical Mineralogies*, 1948: p. 315. • *USGS Library Catalog*.

**TOTTEN, Joseph Gilbert.** (BORN: 1788; DIED: 1864) *American general.*

**REFERENCES:** ABA: I 1618, 102-121; II 626, 203. • Adams, *Dictionary of American Authors*, 1904. • *Appleton Cyclopaedia of American Biography*. • Drake, *Dictionary of American Biography*, 1872. • *Herringshaw's National Library of American Biography*. • *National Cyclopaedia of American Biography*. • WBI. • *Who Was Who in America: Historical volume*.

**4649. — English, 1842?** [Collection catalog].

List of the Cabinet of Minerals presented to the National Institution in the City of Washington, by Col. Joseph G. Totten. [Washington, 1842?].

8°: [2], [1]-30 p. **RARE.**

**REFERENCES:** Hazen & Hazen, *American Geological Literature*, 1980: no. 10296.

**TOULA, Franz.** (BORN: Vienna, Austria, 20 December 1845; DIED: Vienna, Austria, 1920) *Austrian geologist.*

Toula was an invertebrate paleontologist, stratigrapher and structural geologist who worked at the Technische Hochschule in Vienna. He studied especially the territory of Romania, studying the fossils and geology.

**REFERENCES:** DBA: I 1279,308-315; II 1313,344-352. • Poggendorff: 3, 1361, 4, 1516-7, & rbf 5, 1265. • Sarjeant, *Geologists*, 1980: 3, 2279-80. • *Verhandlungen Geologischen Reichsanstalt*, Wien: 1920, p. 41-49. • WBI.

**4650. — German, 1886.**

Mineralogische und petrographische Tabellen, zusammengestellt von Franz Toula ... Prag, Reichenberg [printed], 1886.

8°: [2], 161 p., 18 illus. **VERY SCARCE.**

**REFERENCES:** BL: [7104.e.12.]. • NUC.

**4651. — German, 1906.**

Leitfaden der Mineralogie und Geologie für die oberen Klassen der Mittelschulen. Mit 94 Bildern und 126 kristallographischen Figuren im Texte, ferner 2 Bilder-Tafeln, einem Titelbilde und einer analytischen Bestimmungs-Tabelle. Wien und Leipzig, Hölder Verlag, 1906.

8°: 209 p., illus. **VERY SCARCE.**

**REFERENCES:** NUC.

**TOWNSON, Robert.** (BORN: 1763; DIED: 1827) *English traveler, naturalist & geologist.*

Townson traveled in Hungary and Austria, writing an account. In 1807 he settled in Australia where he became involved in colonial politics.

**REFERENCES:** Allibone, *Dictionary of English Literature*, 1859-71. • BBA: I 1091, 388-390. • DNB. • Rózsa, P., ed. *Robert Townson's travels in Hungary*. Proceedings of the



TOWNSON

'Townson Symposium' held in Debrecen, 26th September 1997. Kossuth University Press, Debrecen, 1999. 219 p. [ISBN 9634724051. A collection of 18 essays - both in English and Hungarian - on the life and science of Robert Townson.]. • Sarjeant, *Geologists*, 1980: 3, 2281-2. • Watt, *Bibliotheca Britannica*, 1824. • WBI.

**4652. — English, 1798.**

Philosophy | of Mineralogy. | [tapered rule] | By Robert Townson, L.L.D. | F.R.S. Edinb. etc.— Author of *Travels of Hungary* | [vignette: hand colored cross-section depiction of mineralized veins, labeled plate III] | London: | Printed for the Author. | Sold by John White, Fleet-Street. | 1798.

8°:  $\pi^2$  a<sup>4</sup> b<sup>1</sup> B-O<sup>8</sup> P<sup>4</sup> Q<sup>4</sup>; 119 $\ell$ .; [i]-xiv, [1]-219, [1], [3], [1] blank p., colored title vignette, 2 plates (one colored & folding), 2 tables. PAGE SIZE: 212 x 128 mm.

**CONTENTS:** [i-ii], Half title page, "Philosophy | of | Mineralogy," verso blank.; [iii-iv], Title page, verso blank.; [v]-viii, Dedication to the Duchess of Devonshire.; [ix]-xii, "Preface.;" [xiii]-xiv, "Contents.;" [1]-219, Text.; [1], "Works preparing for the Press by the | Author.;" [1 pg], "Explanation of Plate I.;" [1 pg], "Explanation of Plate II.;" [1 pg], "Explanation of Plate III.;" [1 pg], Blank.

**PLATES:** All the plates are signed "Barlow, sc." The subjects are: I. Undulating Strata of Stratified Hill in Mansfield Germany (colored, folding). II. Title vignette showing "Several Veins and One Bed of Ore in Primitive Rock." (hand-colored). III. 30 figures of crystal forms.

**VERY SCARCE.** The book describes the elements that enter into the composition of minerals, followed by a descriptive mineralogy based on William Babington's [q.v.] *System of Mineralogy* (London, 1795). Also included is information concerning stratification of rocks, "irregularities" of the earth's surface, veins and fossils. Other sections concern the use of external characters to determine minerals and a mineralogical glossary in English, German and Latin. The work ends with instructions for collecting specimens and a list of other books on mineralogy.

The plates show: I. Undulating Strata of Stratified Hill in Mansfield Germany (colored, folding); II. Title vignette showing "Several Veins and One Bed of Ore

in Primitive Rock." (colored); III. 30 figures of crystal forms.

REFERENCES: BL: [953.g.7.]. • LKG: XII 199. • *Philosophical Magazine*, 3rd Series: 2 (1799), 195. • Porter, *Making of Geology*, 1980: p. 171-3.

#### 4653. — English, 1799.

Tracts and observations in natural history and physiology. London, Printed for the author and sold by J. White, 1799.

ix, 232 p., plates.

VERY SCARCE. Natural history. Amphibians. Mineralogy.

**TRADESCANT, John, Jr.** (BORN: Meopham, Kent, England, 4 August 1608; DIED: South Lambeth, Surrey, England, 22 April 1662) *English antiquarian*.

Like his father, he was steadfast in his attachment to the established church, and also like his father, Tradescant was a skilled gardener. He did make three expeditions to Virginia, and he collected specimens, especially plants, while he was there.

Gardener to Queen Henrietta Maria, 1638-42 (when the Queen fled the Civil War). Tradescant succeeded his father. His status appears to me as a perfect embodiment of the ambiguity of patronage relation. From his father he also inherited the museum, which continued to be run as a commercial enterprise. After the Parliamentary victory and the termination of his relation with the court, the museum was Tradescant's principal means of livelihood. There is evidence that he functioned as a merchant in overseas trading during the late 50's.

Queen Henrietta Maria. Add that Tradescant dedicated the second edition of *Musaeum Tradescantianum*, 1660, to Charles II, and that when an official tried to make Tradescant get a license to operate the museum, Charles gave him a warrant to proceed without one. Possibly Elias Ashmole should be mentioned here. He financed the publication of *Musaeum* in 1656. However, the conventional wisdom (which is supported by considerable evidence) is that Ashmole was then already scheming to get the collection into his own hands. Tradescant dedicated the first edition to *Musaeum* to the President and Fellows of the Royal College of Physicians. Tradescant was growing medicinal plants for the college at this time and was negotiating with them over the establishment of a physic garden.

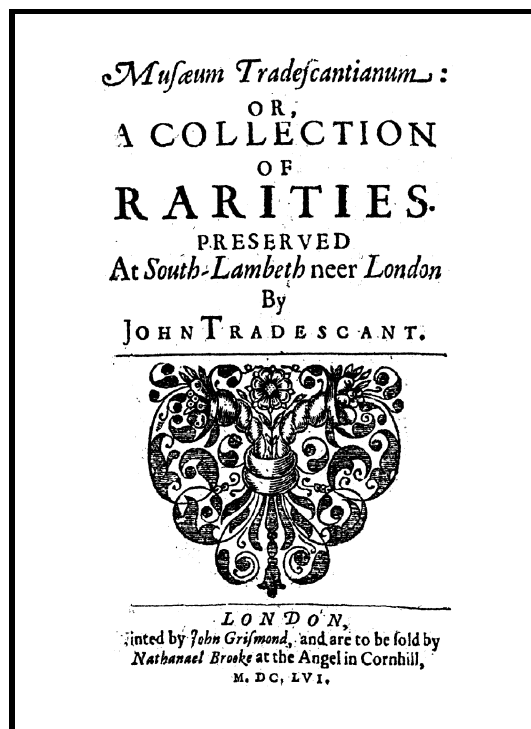
REFERENCES: DNB: 19, 1072-4. • Leith-Ross, P., *The John Tradescants: Gardeners to the Rose and Lily Queen*. London, 1984. • Rimbault, E.F., "Family of the Tradescants," *Notes and Queries*, 3 (1851), 353-5. • Singer, S.W., "Tradescants and E. Ashmole," *Notes and Queries*: 5 (1852), 367-8 & 385-7.

#### 4654. — English, 1656 [Collection catalog].

*Musæum Tradescantianum: | Or, | A Collection | Of | Rarities. | Preserved | At South-Lambeth neer London | By | John Tradescant. | [rule] | [ornament] | [rule] | London, | Printed by John Grismond, and are to be sold by | Nathaneal Brooke at the Angel in Cornhill, | M. DC. LVI.*

8°:  $\pi^2$  a<sup>4</sup> B-??; 98ℓ.; [12], 1-179, [4] p., 3 plates (2 portraits by Wenceslas Hollar; one armorial plate). PAGE SIZE: 146 x 84 mm.

CONTENTS: [2 pgs], Title page, verso blank.; [1 pg], Dedication.; [1 pg], Blank.; [8 pgs], "To the Ingenious Reader."—signed John Tradescant.; [2 pgs], "A view of the whole." [=contents]; 1-179, Text.; [1 pg], blank.; [4 pgs], [Index?].



MUSÆUM TRADESCANTIANUM, 1656

RARE, but exceptionally so with two portraits. This is the first catalog of what was far and away the largest and most comprehensive collection of its day in England, which forms the foundation of the Ashmolean natural history collection. The first portion of the book (pp. 1-72) contains lists of the natural history and artificial objects, which is followed by a catalogue in English and Latin of the plants in the garden, which includes the 'Catalogus Plantarum' (pp. 73-178).

The text of the lists is divided into 13 sections describing: (1) various kinds of birds, eggs, beaks, feathers, claws and spurs, (2) four-footed beasts, including hides, horns and hoofs, (3) fish and aquatic animals, (4) shell creatures, including univalvia and bivalvia, (5) insects and snakes, (6) minerals and fossils, including earths, corals, salts, bitumens, and choicer stones and gems, (7) exotic fruits, nuts and woods, (8) mechanical artificial works such as carving, turnings, sewings and paintings, (9) other types of rarities, (10) European and Asian weapons, (11) garments, vestures, habits, ornaments, (12) utensils and household items, and (13) coins both ancient and modern.

The collection was originally formed by the senior Tradescant who opened it to the paying public as 'The Ark.' Ultimately it was bequeathed to the younger, who kept it open to the public and eventually published this catalog, which is the first museum catalog published in the English language. In general the collection follows the idealized pattern described by SAMUEL QUICKEBERG. Eventually, John the younger made a



## TRAUBE

gift of the collection to Elias Ashmole [see note below]. However, the gift was retracted a few years later, and the collection was instead gifted to Tradescant's wife, stipulating that she leave it to either Oxford or Cambridge. However, after Tradescant the younger's death, Ashmole successfully brought suit against his widow to regain the collection. In 1677, when Ashmole bequeathed his collections to Oxford, the Tradescant cabinet was included, and the remains may still be seen there today.

**John Tradescant, Sr.** (BORN: Probably Suffolk, England, c1587; DIED: South Lambeth, Surrey, England, 15/16 April 1638) *English naturalist*. Tradescant was steadfastly orthodox in his religious connections. The two John Tradescants, father and son, were skilled gardeners with minimal claims to be considered scientists. However, the elder John Tradescant collected everything curious in natural history—minerals, birds, fish, insects, as well as coins, medals, and miscellaneous curiosities. He published, *Plantarum in horto Johannis Tradescanti Nasentium Catalogus* (London, 1634). As gardeners, he and his son introduced a number of new plants into England.

There is some evidence that he was gardener to William Brooks at Cobham Hall before 1600. Certainly he had established his reputation as a gardener by 1610 when Salisbury began to employ him. Gardener to the Earl of Salisbury, 1610-14, (mostly at Hatfield, but also at Cranborne in Dorset and at Salisbury House in London) with the high salary of £50. If the salary sounds like ordinary employment, the additional gifts, such as £100 in 1612, sound like patronage. This was Tradescant's first documented employment. Salisbury sent him on expeditions to the continent to purchase vines, trees, plants, and flowers for Hatfield House. Salisbury (Robert Cecil) died in 1612; Tradescant continued with the heir until 1614-15. Gardener to Edward Lord Wotton at Canterbury in Kent, c.1615-23. During this time he joined Sir Dudley Digges' embassy to Russia as a botanist, and brought home some plants. In 1620 he joined an expedition against the Barbary corsairs. Gardener to the Duke of Buckingham, c.1624-8. He accompanied Buckingham's expedition to La Rochelle in 1628. Buckingham arranged for Tradescant to hold the sinecure of yeoman garnetter at the Whitehall granary (which I categorize as patronage). By the time of Buckingham's assassination, Tradescant had acquired enough to be financially independent. He set up a garden and museum (called the Ark) in South Lambeth, 1628. This was run as a commercial enterprise, with a fee to enter. It appears that he also ran the garden as a commercial nursery.

Gardener to Queen Henrietta Maria with a salary of £100 (very high for a gardener), 1630 until his death. He continued to operate his own establishment in South Lambeth, and there is some evidence that he functioned as a consultant on gardens to various aristocrats associated with the court. He was appointed keeper of the new physic garden at Oxford in 1637 (£50), and held the position until his death.

**Elias Ashmole.** (BORN: Lichfield, Staffordshire, England, 23 May 1617; DIED: South Lambeth, near London, 18 or 19 May 1692) *English antiquarian*. Ashmole had legal training in London, 1633-8, he then studied at Oxford in 1645. He left without a degree, however. In 1669, Oxford conferred an M.D. on him. About 1660 he became primarily an antiquarian. He published quite a few books in that area and gathered a collection that he gave to Oxford, along with Tradescant's collection. A royalist in the Civil War, he was appointed by Charles I to collect the excise in Staffordshire in 1644. Appointed commissioner, receiver and registrar of Excise of Worcester, 1645. Controller and assistant master of Ordnance in Worcester, 1646. With the Restoration Ashmole's fortunes really looked up. He

was appointed Comptroller and Auditor of the Excise and continued with the Excise until his death. Charles also appointed him Windsor Herald in the same year 1660. He was also appointed Secretary and Clerk of the Courts of Surinam. The process is unclear but Ashmole clearly charmed circles of gentry and nobility. Note his success during the early forties when Ashmole successfully insinuated himself into royalist circles in Oxford. Ashmole was elected a Fellow of the Royal Society in 1661, but he was not active in it.

REFERENCES: Balsiger, *Kunst und Wunderkammern*, 1970: 474-8. • BL: [1651/1622.]. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 273. • Madan, *Oxford Books*, 1895-1931: no. 2292. • Wilson, *History of Mineral Collecting*, 1994: 40, 196 & 226. • Wing: T-2005. • Wood, *Literature of Vertebrate Zoology*, 1931: p. 600. (Tradescant, Sr) DNB: 19, 1070-2. • Leith-Ross, P., *The John Tradescants: Gardeners to the Rose and Lily Queen*. London, 1984. • Rimbault, E.F., "Family of the Tradescants," *Notes and Queries*, 3 (1851), 353-5. • Singer, S.W., "Tradescants and E. Ashmole," *Notes and Queries*: 5 (1852), 367-8 & 385-7. • Watson, W., "Some Account of the Remains of John Tradescant's Garden at Lambeth," *Philosophical Transactions of the Royal Society*, 46 (1752), 160-1. (Ashmole) Ashmole, E., *The Diary and Will of Elias Ashmole*. Oxford, 1927. • Balsiger, *Kunst und Wunderkammern*, 1970: 68-71. • *Catalogue of Portraits of Naturalists*: 128 [2 portraits listed]. • DNB: 1, 644-6. • Flower, W., *Essays on Museums and other Subjects connected with Natural History*. London, 1898: 4-5. • Josten, C.H., ed., *Elias Ashmole*, Oxford, 1966, 5 vols. [Vol. 1 contains a biography]. • Singer, S.W., "Tradescants and E. Ashmole," *Notes and Queries*: 5 (1852), 367-8 & 385-7.

**4655. 2nd edition, 1660:** Musæum Tradescantianum: | Or, | A Collection | Of | Rarities. | Preserved | At South-Lambeth neer London | By | John Tradescant. | [rule] | [ornament] | [rule] | London, | Printed by John Grismond, and are to be sold by | Nathaneal Brooke at the Angel in Cornhill, | M. DC. LX.

8°: [20], 1-179, [4] p., 3 plates (2 portraits by Wenceslas Hollar; one armorial plate).

VERY RARE. When Charles II was restored to the throne, Tradescant reissued the work with an altered title page and a new dedication, "To The | Sacred Majesty | Of | Charles the II. | By the Grace of God | King of England, Scotland, | France and Ireland, Defender of | the Faith, &c. | John Tradescant, | His Majesties most obedient | and most Loyal Subject, | In All Humility | Offereth these Collections." The previous dedication, 'To the College of Physicians', was hastily excised.

REFERENCES: BL: [no copy listed].

**TRAUBE, Hermann.** (BORN: Rätibor, Schlesia, Germany, 24 September 1860; DIED: 1913) *German mineralogist*.

From 1880 to 1884, Traube was educated in Leipzig, Heidelberg, Breslau and Greifswald. He received his doctorate in mineralogy from the University of Berlin, where he became a professor.

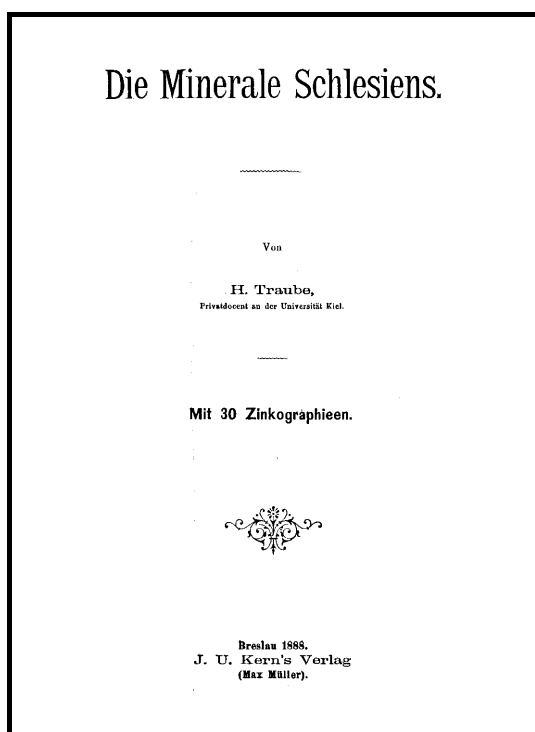
REFERENCES: DBA: I 1280, 285; II 1314, 364-268. • Poggendorff: 4, 1519-20 & 5, 1266. • WBI.

**4656. — German, 1888.**

Die Minerale Schleisiens. | [wavy rule] | Von | H. Traube, | Privatdocent an der Universität Kiel. | [wavy rule] | Mit 30 Zinkographien. | [ornament] | Breslau, 1888. | J.U. Kern's Verlag | (Max Müller).

16°: xvi, 285, [1] p., 30 illus., biblio. This topographical mineralogy describes the minerals found in Silesia, Germany. RARE.

REFERENCES: BL: [7104.de.16.]. • Dana's 7th (Bibliography): 82. • Fleszarowa, *Bibliografia Geologiczna Polski*,



DIE MINERALE SCHLEISIENS, 1888

1966: no. 3298. • *Neues Jahrbuch für Mineralogie, Geologie und Paläontologie*: 2 (1888), 166-68. • Spencer, *Catalogue of Topographical Mineralogies*, 1948: [p. 308].

**TRAVERSAY, Auguste.** *French mineralogist.*

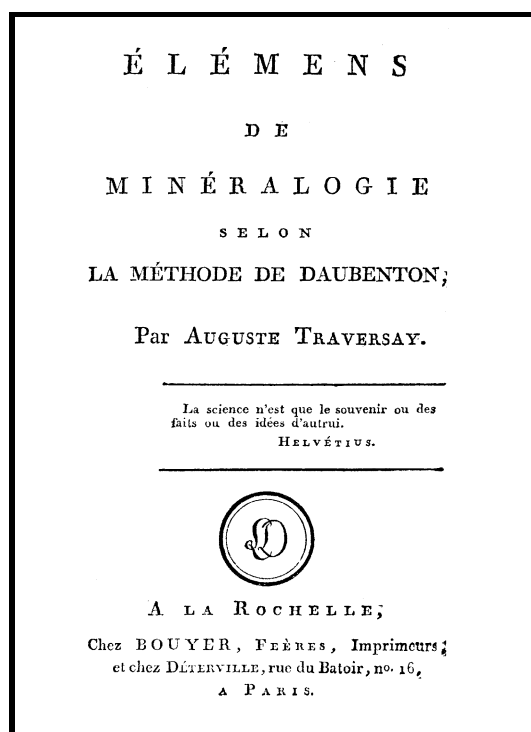
**4657. — French, 1800.**

Éléments | de | Minéralogie | selon | la Méthode de Daubenton, | Par Auguste Traversay. | [rule] | La science n'est que le souvenir ou des | faits ou des idées d'autrui. | Helvétius. | [rule] | [Script initials "L D" enclosed within a double circle.] | A la Rochelle, | Chez Bouyer, Feères, Imprimeurs, | et chez Détéville, rue du Batoir, n<sup>o</sup>. 16. | A Paris.

8<sup>o</sup>:  $\pi^2$  A-G<sup>8</sup>; 58 $\ell$ .; [i]-xxx, [1]-81, [1] blank, [4] errata p. PAGE SIZE: 197 x 120 mm.

CONTENTS: [i-ii], Half title page, "Éléments | de | Minéralogie," verso blank.; [iii-iv], Title page, verso "Avis."; [v]-viii, "Hommage | aux mânes | de Daubenton."; [ix]-xi, "Discours | Préliminaire | Qui a servi de Prospectus à ces | Éléments de Minéralogie."—signed Auguste Traversay, "19 Frimaire an 8 de la République française." [=8 December 1800].; [xiii]-xxx, "Introduction."; [1]-81, Text.; [1 pg], Blank.; [4 pgs], "Errata."

VERY RARE. In this prospect work, Traversay comments and expands upon DAUBENTON's theories of mineralogical classification. The author was a disciple of Daubenton, and his *Éléments* was published as a prospectus to enlist subscribers to fund a fuller treatment. In France at the time, Daubenton's mineralogical theories had become very



ÉLÉMENTS DE MINÉRALOGIE, 1800

popular through his public lectures and numerous writings including many contributions to BUFFON's *Encyclopédia* and his *Tableau Mineralogique* (1st ed., Paris, 1784). Apparently, subscribers for the larger work were lacking however, because the volume never appeared. Here, Traversay follows Daubenton by suggesting that the ordering of minerals should be into Stones, Fossils, Combustible Substances, and Metals. Products of volcanoes should be described separately.

REFERENCES: BL: [T.965.(7.)]. • CBN: [no copy listed]. • LKG: XII 153. • NUC: [no copy listed].

**TREBRA, Friedrich Wilhelm Heinrich von.** (BORN: Allstedt, Weimar, Germany, 5 April 1740; DIED: Freiberg, Germany, 16 July 1819) *German mining expert.*

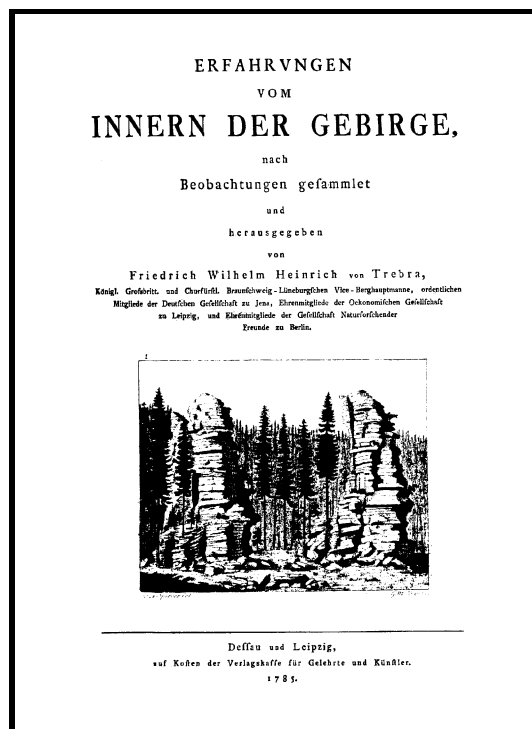
Earlier in his career, stationed at Ilmenau, Trebra met Goethe, who had charge of the Ilmenau mines. They became friends, and it is known that the poet/scientist collaborated in the production of Trebra's famous *Erfahrungen vom Innern der Gebirge* (Dessau & Leipzig, 1785). In 1779, he became inspector of mines for the government of Hannover and spent over a decade at Zellerfeld, in the Harz Mountains, where he greatly developed the mining and metal industry of the region. It is well known that Trebra accompanied Goethe in his wanderings through the Harz Mountains as a friend and geological adviser.

REFERENCES: ADB: 38, 550-1. • Anon., "Friedrich Wilhelm Heinrich von Trebra (1740-1819)," *Z. Harz-Ver. Gesch. Altertums.*, 61 (1928), 17-45. • DBA: I 1282, 1-5; II 1315, 328-331. • DSB: 13, 455-6 [by M. Koch]. • Freyberg, *Geologische Erforschung Thüringens*, 1932. • Herrmann, W., "Goethe und Trebra. Freundschaft und Austausch zwischen Weimar und Freiberg," *Freiberger Forschungshfte*,

TREBRA



TREBRA



ERFAHRUNGEN VOM INNERN DER GEBIRGE, 1785

Baldauf und Brendel. Freiberg, 1906. • WBI.

4658. — German, 1785 [First edition].

Erfaehrungen | vom | Innern Der Gebirge, | nach | Beobachtungen gesammelt | und | herausgegeben | von | Friedrich Wilhelm Heinrich von Trebra, | [...4 lines of titles and memberships...] | [hand-colored rectangular vignette] | [rule] | Dessau und Leipzig, | auf Kosten der Verlagskasse für Gelehrte und Künstler. | 1785.

2°:  $\pi^2$  a-c<sup>2</sup> A-Z<sup>2</sup> Aa-Zz<sup>2</sup> Aaa-Ppp<sup>2</sup>; 130l.; [6], [i]-x, [1]-244 p., 8 folding and very large hand-colored plates, 5 hand-colored engravings in the text (the first on the title page and three others on the sectional title pages and one hand-colored tailpiece). COLOPHON (p. 244): "Clausthal, | gedruckt bey Johann Heinrich Wendeborn." PAGE SIZE: 360 x 236 mm.

CONTENTS: [2 pgs], Title page (with colored vignette), verso blank.; [4 pgs], Dedication to Georg the III.; [i]-x, "Vorrede."; [1], "Briefe | and den | Königlich Grossbritannischen und Churfürstlich Braunschweig-Lüneburgischen | Hern Berhauptmann | August von Veltheim." (with a large colored landscape on the page.); [2], Blank.; [3]-222, Text (colored landscape on page 222); 223-224, "Extract."; 225-228, "Anmerkungen zu I & II."; 229-244, "Erklärungen der Kupfer."; [At end], 8 plates

PLATES: The plates and engravings are signed F.H. Spoerer del., G.M. Krauss Sc. The plates consist of: I. Landscapes and geological outcrops. II-III. Ore samples. IV. Visions of ore in place. V. Map. VI. Geological cross-section. VII. Map showing mineralized veins in place. VIII. Map.

1955, no. 9. • *ISIS*, 1913-65: 2, 556. • Lambrecht & Quenstedt, *Catalogus*, 1938: 435. • Poggendorf: 2, col. 1127. • Sarjeant, *Geologists*, 1980: 3, 2286. • Sarjeant, *Geologists*, Suppl. 2, 1995: 2, 1147. • Schiffner, *Alter Freiburger Bergstudenten*, 1935-40: 1, 115-33, portrait. • Serlo, *Männer des Bergbaus*, 1937. • Trommsdorff, H., "Der Clausthaler Berghauptmann von Trebra und Georg Christoph Lichtenberg," *Nachr.Graetzel.Ges.Göttingen*, 1 (1925), 1-28. • Wappler, A.F., *Oberberghauptmann von Trebra und die drei ersten sächsischen Kunstmeister Mende*,

VERY SCARCE. One of the most beautiful German scientific books of the eighteenth century, illustrated with finely hand-colored large plates and smaller text engravings, likewise colored. Dedicated to George the III, this is a classic work in geological and mining literature, compiled with the assistance of Trebra's longtime friend, WOLFGANG GOETHE. It contains Trebra's observations and theories on the rich mineralization of the Harz Mountains in Germany, anticipating modern theories of ore body formation through metamorphism and mineral replacement. It is finely illustrated on the plates and vignettes that incorporate on one plate ground mica to give realistic 'sparkles' to the rendering of a mineralized vein of ore.

REFERENCES: Adams, *Birth and Development*, 1938: pp. 315-8. • BL: [457.e.19.]. • DSB: 13, 455-6. • Fischer, *Gesteins- und Lagerstättenbildung*, 1961. • Hoover Collection: no. 796. • LKG: XIII 158. • Zittel, *History of Geology*, 1901: p. 56.

**4659. French transl., 1787:** Observations | De | M. De Trébra, | Sur | L'Intérieur Des Montagnes, | Précédées | D'un Plan d'une Histoire générale de la Mineralogie, | par M. de Veltheim; | Avec Un Discours Préliminaire Et Des Notes | De M. Le Baron De Dietrich, | [...4 lines of titles and memberships...] | [ornament] | A Paris, | De L'Imprimerie De Monsieur. | se trouve chez [the next two lines braced on the left-hand side:] { Didot le jeune, Libraire, quai des Augustins. | Didot fils aîné, Libraire, rue Dauphine. | A Strasbourg, | Chez Treuttel, Libraire; et chez tous les Libraires de France et des Pays étrangers. | M. DCC. LXXXVII. | Avec Approbation, Et Privilège Du Roi.

2°:  $\pi^2$  a-h<sup>2</sup> i<sup>2</sup> 2i<sup>2</sup> k-p<sup>2</sup> 2a-2b<sup>2</sup> A-Z<sup>2</sup> 2A-2I<sup>2</sup> 2K<sup>2</sup> ([2K2]+“2K2”) 2L-4H<sup>2</sup>; ??ℓ.; [4], lxiiij p., [6] folded leaves, vj, [1], 308 p., [10] leaves of plates (8 folded), 5 hand-colored text etchings, 9 hand-colored plates, map (of the Hartz Mountains), 7 tables. The etchings were done by G.M. Kraus. “Errata”: pp. [309]-[310], bibliography: pp. [lvij]-lxiiij. PAGE SIZE: 11 x 15.5 inches

VERY RARE. Translation of two German works on mineralogy and mining by Philipp Friedrich Baron von Dietrich [see note below]. The high mining official Wilhelm Heinrich von Trebra had originally published his important scientific observations of the Hartz Mountains as *Erfahrungen vom Innern der Gebirge* (Dessau & Leipzig, 1785), and that is what constitutes the bulk of this work. However, also included is a translation of AUGUST VON VELTHEIM's *Grundriss der Mineralogie* (Braunschweig, 1781). The plates belong to Trebra's work and are the reengraved versions of the original edition. Baron Dietrich, of Strassburg, was a commissioner of the mining works in France, and in his translation he brings much insight and expertise.

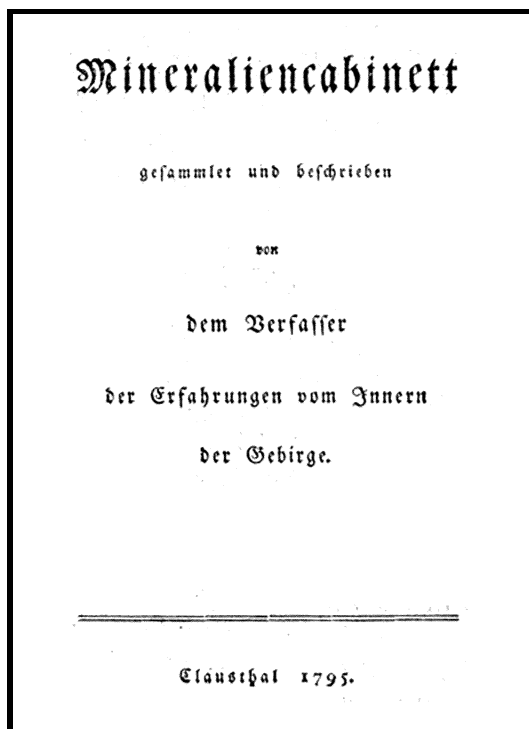
This edition was privately printed at Trebra's expense and distributed from Paris among his immediate circle of friends and associates, unlike the original German edition which was sold to the general public.

**CONTENTS:** Half title page, hand-colored plate mounted on title page, folding copper engraved map hand-colored in the outline of the Hartz region numbered 3, pp. [vi, preface], 308 (with colored plate facing page 230), 9 hand-colored plates and plans double-page or extending (numbered I to VIII with Va & Vb), 7 folding tables on 6 leaves, no table III (perhaps the colored map bound at the beginning), table 4 numbered in Arabic not Roman.

REFERENCES: BL: [32.k.5.]. • *Freilich Sale Catalog*: no. 533. • LKG: XIII 159a. • Ward & Carozzi, *Geology Emerging*, 1984: no. 2198.

**4660. — German, 1795** [Collection catalog].

Mineraliencabinett | gesammelt und beschreiben |



MINERALIENKABINETT, 1795

von | dem Verfasser | der Erfahrungen vom Innern | der Gebirge. | [double rule] | Clausthal 1795.

8°: [A]-N<sup>8</sup> O<sup>3</sup>; 107ℓ.; [1]-212, [2] p., one plate (folding). PAGE SIZE: 190 x 118 mm.

CONTENTS: [1-2], Title page, verso blank.; [2]-12, “Zweck und Anordnung des | Cabinetts.”; 13-60, “Felsarten oder Bergarten.”; 61-87, “Gangarten.”; 87-123, “Ganggesteinarten.”; 123-125, “Gangarten im eigentlichen Sinn. | Salze.”; 125-135, “Brennliche Stoffe.”; 135-136, “Metallische Wesen.”; 136-212, “Metalle.”—includes manganese, cobalt, antimony, nickel, bismuth, arsenic, mercury, zinc, tin, iron, copper, lead, silver and gold.; [2 pgs], “Wiederholung der Anzahl nach Beschrei= | ung von Seite 13 bis 190.”

PLATES: The large (230 x 285 mm.), folding engraved plate bound at the end illustrates the cabinet Trebra used to store his mineral collection. It is signed H. Fuss.

VERY RARE. Published semianonymously. The title indicates the author to be the same as the writer of another work, *Erfahrungen vom Innern der Gebirge* (Dessau & Leipzig, 1785), and this is known to be Von Trebra. *Mineralcabinett* is a description of Trebra's mineral and ore collection, and its reason for existence. The text begins with an overview of the organization, which was specifically tailored to benefit mining experts. The collection is grouped into rocks and vein material, gangue, gangue rocks, the composition of matrix rocks, combustible materials, metallic deposits and metals proper. Von Trebra correctly believed that by studying all geological and mineralogical aspects of working mines, other similar ore deposits could be discovered while conducting

## TREUTLER

regional geological surveys. The book is illustrated with a beautiful plate showing the long case where the specimens described in the volume are stored.

A few years after this work was published, Von Trebra's mineral collection was sold at auction. It was described by Friesleben (1828) as being a "well prepared, correct and accurate catalog in customary form." It was published under the title: *Verzeichnis von dem Mineralien Cabinet des Königl. Großbrittan. Berghauptmann von Trebra, welches derselbe zu Clausthal durch Auction will vereinzeln lassen*. [Clausthal:] 1797. 8°: 216 p.

REFERENCES: BL: [990.f.26.]. • BMC: 3, 1317. • Freiesleben, *Sächsische Mineralien-Verzeichnisse*, 1828: no. 56. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 269-70. • LKG: XV 45. • *Neue Allgemeine deutsche Bibliothek*: Supplement to volumes 1-28, no. 1, 351. • Partsch, *Katalog der Bibliothek*, 1851: no. 483. • Wilson, *History of Mineral Collecting*, 1994: 226.

### 4661. — German, 1797 [Sale catalog].

[Printed on the front wrapper:] Verzeichniß | von dem | Mineralien=Cabinette | des | Königl. Großbritt. und Churfürstl. Braunsch. | Lüneburg. | Berghauptmanns von Trebra, | welches | derselbe zu Clausthal am 21sten Aug. d. J. | und folgenden Tagen | Morgens um 9 Uhr und Nachmittags um 2 Uhr | durch | öffentliche Auction will vereinzeln | lassen. | [tapered rule] | Clausthal | gedruckt bey J. C. Wendeborn, | 1797.

8°:  $\pi^4$  A-N<sup>8</sup> O<sup>3</sup> (including front cover); 112ℓ.; [i]-viii, [1]-216 p. PAGE SIZE: 172 x 108 mm.

CONTENTS: [i-ii], Title page, verso blank.; iii-vi, "Vorbericht."; vii-viii, "Inhalt | dieses Verzeichnisses."; [1]-216, Text.

VERY RARE. Auction catalog of a portion of von Trebra's mineral collection, which was sold on the 21 August 1797 and subsequent days. According to the introductory material, the specimens sold at this sale were those described in Trebra's 1795 work, *Mineralien cabinett gesammelt und beschreiben von dem Verfasser der Erfahrungen vom Innern der Gebirge*. This sale is organized in the same classification system outlined in Trebra's earlier work.

REFERENCES: BL: [no copy listed]. • Freiesleben, *Sächsische Mineralien-Verzeichnisse*, 1828: no. 57. • Wilson, *History of Mineral Collecting*, 1994: p. 226.

### 4662. — German, 1804.

Merkwürdigkeit der tiefen Hauptstölln des Bergamtsreviers Freyberg zur Begleitung der Charte von diesen Stölln angefügt von dem Verf. der Erfahrungen vom Innern der Gebirge [Friedrich Wilhelm Heinrich von Trebra]. Dresden, 1804.

8°: 96 p., one folding leaf (map). RARE.

REFERENCES: BL: [no copy listed]. • LKG: XIV 225.

### 4663. — German, 1822 [Sale catalog].

Auctions Verzeichniß zweyer sehr gut gehaltener Mineralien=Sammlungen aus der Verlassenschaft des verstorben Herrn Oberberghauptmann von

Trebra zu Freyberg, welche 1822 zu Dresden den Meistbietenden a. 1. überlassen werden sollen, durch C.E. Heinrich. [Dresden:] 1822.

8°: 71 p.

RARE. Auction catalog of the mineral collection von Trebra's left at his death. It is particularly heavy in metallic species and native elements.

REFERENCES: BL: [no copy listed]. • Freiesleben, *Sächsische Mineralien-Verzeichnisse*, 1828: no. 79. • Wilson, *History of Mineral Collecting*, 1994: 226.

### TREUTLER, Friedrich August. (BORN: 1766; DIED: 1819) *German physician*.

Treutler was a professor of medicine, Privy Councillor ("Hofrath") and an inspector of the Royal Saxon *Naturalien-Galerie* in Dresden.

REFERENCES: DBA: I 1284, 61-63; II 1317, 49. • Fischer, *Mineralogie in Sachsen*, 1939. • Hamberger & Meusel, *Gelehrte Teutschland*, 1796-1834. • Hirsch, *Biographisches Lexikon*, 1884-8. • WBI. • Wilson, *History of Mineral Collecting*, 1994: 196.

### 4664. — German, 1820 [Sale catalog].

Auctions-Verzeichniß einer sehr gut gehaltenen Mineralien-Sammlung ... welche 1820 zu Dresden den Meistbietenden a.l. überlassen werden sollen, durch C.E. Heinrich. Dresden, 1820.

8°: 123 p.

RARE. A well organized and described sale catalog that sold specimens from the collections of F.A. Treutler, Count Rödersch and Ross.

REFERENCES: BL: [no copy listed]. • Freiesleben, *Sächsische Mineralien-Verzeichnisse*, 1828: no. 75. • Wilson, *History of Mineral Collecting*, 1994: 226.

### 4665. — German, 1822 [Sale catalog].

Üebersicht der von dem verstorbenen Inspector der Königl. Naturalien-Galerie in Dresden, Herrn Hofrath D. Treutler hinterlassen Mineralien-Sammlung. Dresden, [1822].

8°: 23 p. RARE.

REFERENCES: BL: [no copy listed]. • Freiesleben, *Sächsische Mineralien-Verzeichnisse*, 1828: no. 78. • Wilson, *History of Mineral Collecting*, 1994: 226.

### TRIEWALD, Mårten. (BORN: Stockholm, Sweden, 18 November 1691; DIED: Stockholm, Sweden, 8 August 1747) *Swedish physicist & mineralogist*.

While still young, Triewald visited England for a ten year period. At the Ritterhaus in Stockholm he taught experimental physics and mechanics, eventually receiving a pension from the King. In 1738, together with five others, he founded the Royal Swedish Academy of Sciences.

REFERENCES: *Biographie Universelle*. • Ferguson, *Bibliotheca Chemica*, 1906: 2, 465. • Jöcher, *Gelehrten-Lexikon*, 1750-51: 4, col. 1315. • Lindroth, *Swedish Men of Science*, 1952. • Poggendorff: 2, col. 1135. • SBA: Scandinavian Biographical Archive: B-341, 051-053. • *Svenskt Biografiskt Handlexikon*: 2, 635-6, portrait. • WBI.

### 4666. — Swedish, 1748 [First edition].

Mårten Triewalds | Tal, | Om | Åmne och Orsaker | Til | Metallernes och Mineralier- | nes Födo, Tiltagande och Mo- | gnande Växt I Jorden. | Hållit För | Kongl. Vetensk. Academien

| Uti | Auditorio Illustri, | Då det Andra  
Præsidentskapet | Afträdde. | År 1740 den 9  
Januarii. | [ornament] | [rule] | På Kongl. Vetenskaps  
Academiens Befallning | Andra gången uplagdt. |  
[wavy rule] | Stockholm, hos Lars Salvius, | År 1748.  
8°: [1]-24 p.

RARE. Published the year after the author's death.

REFERENCES: BL: [965.i.16.(2.)]. • LKG: XIII 69. • SWIM: 30, no. 53.

**4667. German transl., 1795:** Martin Triewald von dem Grundstoffe und den Ursachen der Nahrung, des Wachstums und der Reife der Metalle und Mineralien in der Erde. Aus dem Swedischen übersetzt von D.C.G. Gröning. Leipzig, 1795. Bey Heinrich Gräff.

8°: [2], [1]-20 p.

RARE. This is a German translation of a presidential discourse delivered to the Swedish Academy in 1740: *Tal om ämne och orsaker till Metallers och Mineraliess föda, tilltagande och mognande växt i jorden, vid Præsidi nedläggande i Vet. Akad. 1740.*

D.C.G. Gröning. (BORN: ; DIED: ) .

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[  
[ BIOGRAPHY NEEDED  
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[ ] ] ] ] ]

REFERENCES: BL: [970.i.10.]. • Ferguson, *Bibliotheca Chemica*, 1906: 2, 467. • LKG: XIII 70a. (Gröning)

**4668. — German, 1763** [German transl.].

Rede von dem Stoffe und den Ursachen der Erzeugung und des zunehmenden und reifenden Wachstums der Mineralien und Metalle in der Erde. 1763

8°:

VERY SCARCE. In. Gruner (G. S.) *Auserlesene Sammlung*, etc. Bd. 1. 1763. 8o.

REFERENCES: BL: [966.h.6.].

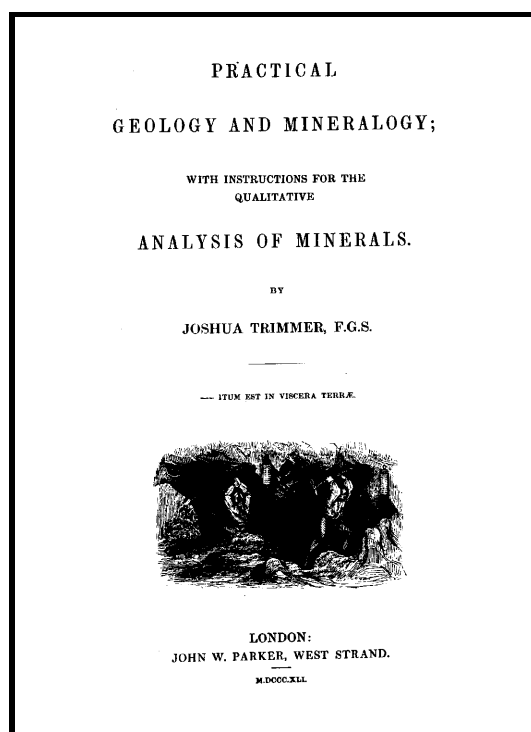
**TRIMMER, Joshua.** (BORN: North Cray, Kent, England, 11 July 1795; DIED: London, England, 16 September 1857) *English geologist & mineralogist.*

Trimmer studied under William Davison, curate of New Brentford. In 1814, he was sent to manage his father's copper mine in North Wales. He was appointed overseer of the slate quarries near Bangor and Carnarvon, Wales in 1825. Trimmer took in 1840 a position with the Geological Survey of England. He discovered sands with marine fossils of existing species 1,350 ft. above sea level and did work to classify mineral desposits. He was elected a Fellow of the Geological Society.

REFERENCES: Allibone, *Dictionary of English Literature*, 1859-71. • BBA: I 1095, 80-82; II 1809, 330. • Boase, *Modern English Biography*, 1892-1921. • DNB. • *Encyclopaedia Britannica*, 11th edition. • Poggendorff: 2, col. 1135. • Sarjeant, *Geologists*, 1980: 3, 2289. • WBI. • *World Who's Who in Science*: 1687.

**4669. — English, 1841.**

Practical | Geology And Mineralogy; | with  
instructions for the | qualitative | Analysis Of  
Minerals. | By | Joshua Trimmer, F.G.S. |  
[rule] | — Itum est in viscera terræ | [vignette  
showing two miners working underground] | London:  
| John W. Parker, West Strand. | [short rule] |  
M.DCCC.XLI.



PRACTICAL GEOLOGY AND MINERALOGY, 1841

8°:  $\pi^1$  b<sup>4</sup> c<sup>8</sup> B-2K<sup>8</sup> 2L<sup>4</sup>; 273ℓ.; [i]-xxvi, [1]-519, [1] p., frontispiece (showing four views of prehistoric landscapes with animals), 212 woodcut illus. PAGE SIZE: 216 x 138 mm.

CONTENTS: [i-ii], Title page, verso blank.; [iii]-ix, "Preface."; [x], Errata.; [xi]-xxii, "Contents."; [xxiii]-xxiv, "Alphabetical List Of Fossil Remains | Figured In The Course Of This Work."; [xxv]-xxvi, "Explanation Of The Frontispiece."; [1]-487, Text.; [488], Blank.; [489], "Postscript, | On | The Glacial Theory Of M. Agassiz."; [490], Blank.; [491]-495, Text.; [496], Blank.; 497-519, "Index."; [1 pg], "London: | Harrison and Co., Printers, | St. Martin's Lane."

VERY SCARCE. This little known but highly interesting textbook deals with both mineralogy and geology. The first section covers mineralogy in all its aspects including a great deal on mineralogical chemistry while the later deals with geology. It is illustrated throughout with interesting and quaint woodcuts.

REFERENCES: BL: [726.i.13.]. • NUC: 601, 450-1 [NT 0336685].

**4670. — English, 1842** [American issue].

Practical | Geology And Mineralogy; | with  
instructions for the | qualitative | Analysis Of  
Minerals. | By | Joshua Trimmer, F.G.S. | [rule] |  
— Itum est in viscera terræ | [vignette showing two  
miners working underground] | Philadelphia: | Lea  
And Blanchard. | 1842.

8°: [v]-xxviii, [25]-527, [1] p., frontispiece, illus., plates. VERY SCARCE.

## TROIL

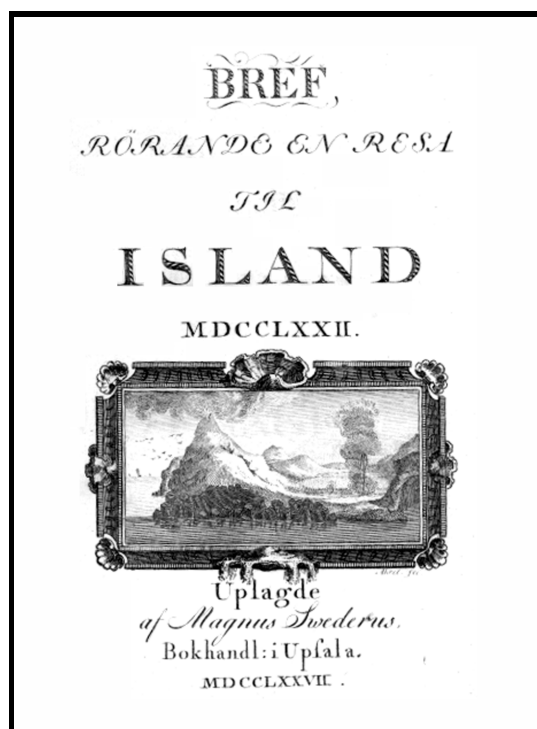
CONTENTS: [Frontispiece].; [v-vi], Title page, verso "C. Sherman, Printer..."; [vii]-xi, "Preface."; [xii], Blank.; [xiii]- "Contents."; [xiv], Blank.; [xxv]-xxvi, "Alphabetical List Of Fossil Remains."; [xxvii]-xxviii, "Explanation Of The Frontispiece."; [25]-501, Text.; [502], Blank.; 503-506, "Glossary."; [507]-527, "Index."; [1 pg], Blank.

REFERENCES: BL: [no copy listed]. • NUC: 601, 450-1 [NT 0336686]. • Ward & Carozzi, *Geology Emerging*, 1984: no. 2200.

**TROIL, Uno von, Archbishop of Upsala.** (BORN: Stockholm, Sweden, 24 February 1746; DIED: 1803) *Swedish theologian.*

Troil was the son of Samuel Troilius, who had also been archbishop. He was known for great wit at a young age. After completing his studies, he traveled abroad to Holland, Iceland and Göttingen. Returning home to Sweden, Troil was ordained a priest in 1773. In 1775 he was appointed court chaplain, and in 1776 he married. In 1780 he was consecrated bishop of Linköping, then in 1786 he was ordained archbishop, at the young age of 40. Troil was also a member of several scientific societies, and was a benefactor to them throughout much of his life.

REFERENCES: *Biographiskt Lexicon*. • SBA: Scandinavian Biographical Archive: B-341, 167-198. • *Svenskt Biografiskt Handlexikon*: 2, 636-7. • WBI.



BREF, 1777

**4671. — Swedish, 1777** [First edition].

[Engraved title page:] Bref, | Rörande En Resa | Til | Island | MDCCLXXII. | [vignette] | Uplagde | af Magnus Swederus. | Bokhandl: i Upsala. | MDCCLXXVII.

8°: [2], 20, [2], 376, [2] p., engraved title, 14 folded plates, illus., one folded map.

**RARE.** Troil was the Archbishop of Upsala, but accompanied an expedition undertaken by Joseph Banks to Iceland in 1772. This is an account of those travels. The English naturalist, Joseph Banks, originally intended to accompany Cook on his second voyage, but circumstances forced him to withdraw and, instead, he employed the assistants and materials he had gathered together in a voyage to Iceland. They reached the island in August, climbed to the top of Hecla, and returned in six weeks via the Hebrides and Staffa. Troil's account of the expedition contains interesting observations on volcanoes, basaltes, hot springs, antiquities, manners and customs, literature, civil and ecclesiastical history, and the fishery industry.

The book also includes appendices by Torbern Olaf Bergman on volcanoes (pp. 327-76), Abraham Bäck on elephantiasis in Iceland (pp. 312-26), and Johan Ihre on the Snorra Edda (pp. 291-311). A bibliography is contained on pages 11-16. The plates show geysers, volcanoes, geological structures, glaciers and ancient monuments.

REFERENCES: BL: [981.a.15.]. • Cox, *Guide to the Literature of Travel*, 1948-50: 1, p. 185. • LKG: XIV 33. • Personal communication: [Peter Kiefer, Pforzheim, supplied a title page image for transcription.]. • SWIM: 2, no. 31.

### German edition

**4672. German transl., 1779:** Briefe | welche eine | von | Herrn Dr. Uno von Troil | im Jahr 1772 | nach Island angestellte Reise | betreffen. | [rule] | Aus dem Schwedischen übersetzt und mit Anmerkungen | herausgegeben. | [ornament] | [rule] | Mit vielen Kupfern. | [double rule] | Upsala und Leipzig | bey Magnus Swederus, Königl. Akad. Buchhändler. | 1779.

8°: xxvi, 342, [4] p., folding table, 12 folding plates, one folding map. Dedication of translator is signed Johann Georg Peter Moller. **VERY SCARCE.**

REFERENCES: BL: [no copy listed]. • LKG: XIV 34a. • Personal communication: [Peter Kiefer, Pforzheim, supplied a title page image for transcription.].

### English editions

**4673. London imprint, 1780:** Letters on Iceland: containing observations on the civil, literary, ecclesiastical, and natural history; antiquities, volcanos, basaltes, hot springs; customs, dress, manners of the inhabitants, &c. &c. made, during a voyage undertaken in the year 1772, by Joseph Banks, assisted by Dr. Solander, Dr. J. Lind, Dr. Uno von Troil, and several other literary and ingenious gentlemen. Written by Uno von Troil. To which are added the letters of Dr. Ihre and Dr. Bach [i.e. Back] to the author, concerning the Edda and the elephantiasis of Iceland: also Professor Bergman's curious observations and chemical examination of the lava and other substances produced on the island. With a new map of the island, and a representation of the remarkable boiling fountain called by the inhabitants geyser. London, Printed by and for W. Richardson [etc.] 1780.

8°: xxvi, 400 p., plate, folding map.

**VERY SCARCE.** Translated from the German version of Johann Georg Peter Moller, by Mrs. Susanna Dorothy (Forster) Dixon. A "Catalogue of Writers on Iceland" contains 120 entries and is contained on pages xviii-xxvi.

The plate shows a geyser.

**Another edition, 1810:** Letters on Iceland: containing observations on the civil, literary, ecclesiastical, and natural history ... made, during a voyage ... in ... 1772, by Joseph Banks ... assisted by Dr. Solander ... and several other literary

... gentlemen ... To which are added the letters of Dr. Ihre and Dr. Bach [or rather, Bäck] ... concerning the Edda and the elephantiasis of Iceland: also, Professor Bergman's curious observations and chemical examination of the lava ... produced on the island, ... In. Pinkerton (J.) A General Collection of ... Voyages. vol. I. 1808, etc. 4o. [BL, L.R.80.c.1.]

REFERENCES: BL: [Cup.407.i.4]. • Cox, *Guide to the Literature of Travel*, 1948-50: 1, 185. • LKG: XIV 37. • Roller & Goodman, *Catalogue*, 1976: 2, 513. • Ward & Carozzi, *Geology Emerging*, 1984: no. 2201.

**4674. Dublin imprint, 1780:** Letters | On | Iceland: | Containing | Observations | On The | Civil, Literary, Ecclesiastical, and Natural History; | Antiquities Volcanos, Basaltes, Hot Springs; Cus- | toms, Dress, Manners of the Inhabitants, &c. &c. | Made, | During a Voyage undertaken in the Year 1772, | By Joseph Banks, Esq. F.R.S. | Assisted by | Dr. Solander, F.R.S. Dr. J. Lind, F.R.S. | Dr. Uno Von Troil, | And several other Literary and Ingenious Gentlemen, | Written by Uno Von Troil, D.D. | [...3 lines of titles and memberships...] | To Which Are Added | The Letters of Dr. Ihre and Dr. Bach to | the Author, concerning the Edda and the Elephantiasis | of Iceland: | Also, | Professor Bergman's Curious Observations and Chemical | Examination of the Lava and other Substances produced on | the Island. | With a new Map of the Island, and Representations of the re- | markable Boiling Fountain called by the Inhabitants Geyser. | Dublin: | Printed By G. Perrin, | For S. Price, W. and H. Whitestone, J. Potts, T. | Walker, C. Jenkin, W. Hallhead, J. Vallance, | L. White, J. Beatty, P. Higly, and P. Byrne. | [rule] | M,DCC, LXXX.

8°: xxvi, 400 p., plate, folding map.

VERY SCARCE. Reprint (unchanged) of the first English edition published in London in the same year. Plate shows a geyser.

REFERENCES: BL: [no copy listed]. • LKG: XIV 35b. • Personal communication: [Peter Kiefer, Pforzheim, supplied a title page image for transcription.].

### French edition

**4675. French transl., 1781:** Lettres | Sur | L'Islande, | Par M. de Troil, Evêque de Linköping. | Traduites Du Suedois. | Par M. Lindblom, Secrétaire-Interprète du | Roi au Département des Affaires Étrangères. | Avec Figures. | [ornament] | A Paris, | De L'Imprimerie De Monsieur. | [double rule] | M. DCC. LXXXI.

8°: xlvij, 474 p., 3 folding plates, 2 folding maps.

VERY SCARCE. The original, published at Upsala, 1777, was augmented and revised by the author for this edition, and translated by G.A. Lindblom under the direction of B.G. Sage. Prefixed are extracts from the prefaces of the English and German translations, and a letter from the author. Lettre de M. Ihre sur l'Edda: p. 242-263; Lettre de M. Baeck sur le scorbut propre a l'Islande: p. 279-295; Description de l'isle de Staffa, par M. Joseph Banks: p. 392-402; Lettre de M. Bergman sur les sources chaudes, les volcans et les basaltes: p. 403-459. "Catalogue des écrits relatifs a l'Islande": p. xxviii-xxxviii; "Catalogue des anciennes sagas": p. 163-177.

REFERENCES: BL: [no copy listed]. • LKG: XIV 35b. • Personal communication: [Peter Kiefer, Pforzheim, supplied a title page image for transcription.].

### TROUGHTON, Felix J.

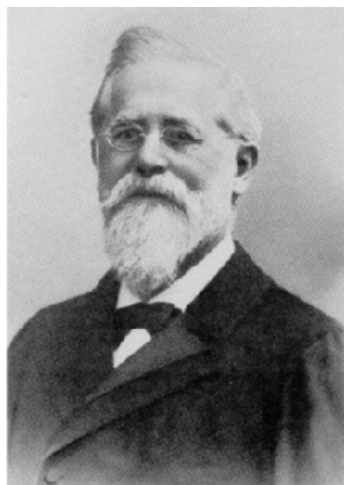
#### 4676. — English, 1901.

[Contained within a double rule border:] A Classified List | Of | Minerals, | Precious And | Other Stones | [double rule] | By | Felix J. Troughton | [double rule] | The | Abbey Press | Publishers | 114 | Fifth Avenue | London New York Montreal.

8°: [1]-27, [1] p. Title page in red and black. No date, but attributed to being published in 1901. PAGE SIZE: 184 x 115 mm.

VERY RARE. An alphabetical list of hundreds of mineral names, each briefly defined. Included are many errors. A work of little importance.

REFERENCES: BL: [no copy listed]. • NUC. • Sinkankas, *Gemology Bibliography*, 1993: no. 6711.



TSCHERMAK

**TSCHERMAK-SEYSENEGG, Gustav von.** (BORN: Littau [now Litove], near Olomouc, Czechoslovakia, 19 April 1836; DIED: Vienna, Austria, 19 April 1927) *German mineralogist.*

In his youth, Tschermak showed much enterprise and independence by starting a natural history society in his school. In 1856, he went to the University of Vienna, where he became assistant to F.X.M. ZIPPE. Graduating from Tübingen in 1860, he returned to Vienna as privat-docent in chemistry and mineralogy. In 1862, he was appointed second curator, and in 1868 director of the Hof-Mineralien-Kabinet in Vienna, from which he retired in 1877, when the collection was incorporated into the Royal Natural History Museum. During his tenure as curator, important additions were made to the mineral and meteorite collections. In 1868, he was made extraordinary professor of mineralogy and petrography and from 1873 ordinary professor at the University of Vienna. On the occasion of his retirement from active teaching in 1906 he was raised to rank of nobility with the hereditary title 'Edler von Seysenegg.' But after his retirement, he continued to work almost every day in the Mineralogical Institute. Tschermak founded the important journal *Mineralogische Mittheilungen* in 1872 as a supplement to the *Jahrbuch* of the Austrian Geological Survey. He was a founder and first president of the Vienna Mineralogical Society.

REFERENCES: *Almanach der Akademie der Wissenschaften in Wien*: 77 (1927), 187-95. • *American Journal of Science*: 5th Series, 14 (1927), 87. • *American Mineralogist*: 12 (1927), 293, portrait. • *Atti Accad. Sci. Torino*: 68 (1928), 187 p. • Cleavelly, *World Palaeontological Collections*, 1983: 292. • DBA: I 1287,3 87-406; II 1321, 241-251, 276-288. • DSB: 13, 475-7 [by H. Baumgärtel]. • *Földtani Közöny*: 58 (1928), 27-8. • Freund & Berg, *Geschichte der Mikroskopie*, 1966: 397-403, portrait [by H. Scholler]. • Knoll, *Österreichische Naturforscher*, 1957. • *Mineralogical Magazine*: 22 (1930), no. 131, 406-8, portrait. • *Nature*: 120 (1927), 195-6.



# TSCHERMAK-SEYSENEGG

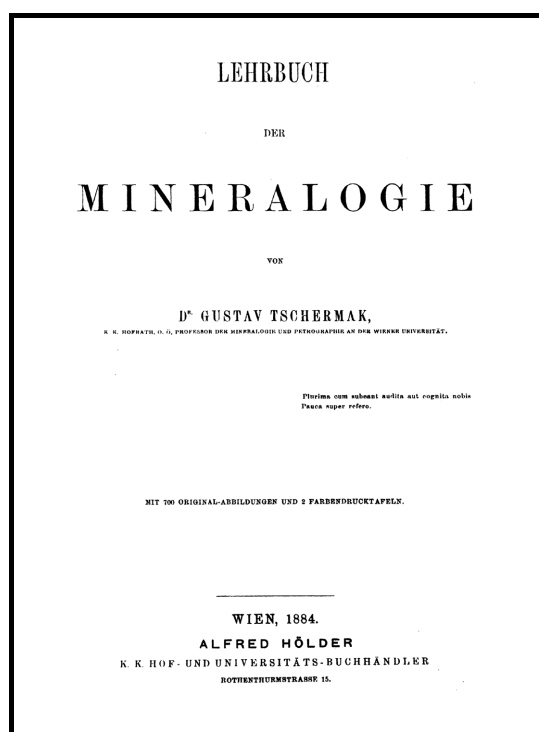
• Poggendorff: 3, 1370-1, 4, 1527-8, 5, 1272-3 & 6, ?? • *Proceedings of the Geological Society, London*: 1928, 1. • Sarjeant, *Geologists*, 1980: 3, 2294-5. • *Tschermaks mineralogische und petrographische Mittheilungen*: 25 (1906), Tschermak-Heft & 39 (1927), I-X. • WBI. • Weyberg, Z., "Jubiläum prof. Gustawa Tschermaka," *Wszechśw.*, no. 25 (1906), 417-9. • *World Who's Who in Science*: 1690. • Wurzbach, *Biographisches Lexikon Österreich*, 1856-91.

## 4677. — German, 1863.

Grundriss der Mineralogie für Schulen. Von Dr. Gustav Tschermak ... Wien, W. Braumüller, 1863.  
8°: vi, 218 p., illus.

RARE. An introduction to mineralogy for students.

REFERENCES: BL: [7104.c.30].



LEHRBUCH DER MINERALOGIE, 1884

## 4678. — German, 1884 [First edition].

Lehrbuch | der | Mineralogie | von | Dr. Gustav Tschermak, | O.Ö. Professor der Mineralogie und Petrographie an der Wiener Universität. | Plurima cum subeant audita aut cognita nobis | Pauca super refero. | Mit 700 Original-Abbildungen Und 2 Farberdrucktafeln. | [rule] | Wien, 1884. | Alfred Hölder | K.K. Hof- Und Universitäts-Buchhändler, | Rothenthurmstrasse 15.

8°: ix, 590 p., 2 color plates, 700 text illus.

VERY SCARCE. First appearance of one of the most influential textbooks in mineralogy. It was written with the authority of an author who was for many

years an instructor in the field of mineralogy and petrography. The introduction begins by defining the science of mineralogy, then follows a brief history of the science. The introduction concludes with a classified list of references used in the preparation of the book. The generalities of the science are covered in the first part. These include chemistry, crystallographic notation, pseudomorphs, etc. The second part is a descriptive mineralogy. Individual species are described by crystal form, hardness, chemical composition, associations, principal localities. Known varieties are then described with similar information. Throughout the book are numerous illustrations. The first few of these show goniometers, while the remainder render many crystal figures. The text closes with an index to the mineral species mentioned. Two colored plates reproducing optical polarization of several species end the work.

REFERENCES: BL: [no copy listed].

4679. 2nd edition, 1885: Lehrbuch | der | Mineralogie | von | Dr. Gustav Tschermak, | O.Ö. Professor der Mineralogie und Petrographie an der Wiener Universität. | Plurima cum subeant audita aut cognita nobis | Pauca super refero. | Zweite Verbesserte Auflage. | Mit 756 Original-Abbildungen Und 2 Farberdrucktafeln. | [rule] | Wien, 1885. | Alfred Hölder | K.K. Hof- Und Universitäts-Buchhändler, | Rothenthurmstrasse 15.

8°: ix, [1] blank, 597 p., 2 color plates, illus., index, biblio. SCARCE.

REFERENCES: BL: [7104.e.9].

4680. 3rd edition, 1888: Lehrbuch | Der | Mineralogie | Von | Dr. Gustav Tschermak, | K.K. Hofrath, O.Ö. Professor Der Mineralogie Und Petrographie An Der Wiener Universität. | [...2 lines of quotation...] | Dritter Verbesserte Und Vermehrte Auflage. | Mit 780 Original-Abbildungen Und 2 Farberdrucktafeln. | [rule] | Wien, 1888. | Alfred Hölder | K.K. Hof- Und Universitäts-Buchhändler | Rothenthurmstrasse 15.

8°: π<sup>5</sup> 1-378 387; 308ℓ.; [i]-ix, [1], [1]-606 p., 2 color plates, 780 illus., index, biblio.

CONTENTS: [i-ii], Title page, verso "Alle rechte, auch das der Übersetzung, vorbehalten."; [iii]-vi, Forwards to the first, second and third editions.; [vii]-ix, "Inhalt."; [1 pg], Blank.; [1]-10, "Einleitung."; [11]-324, "Allgemeiner Theil."; [325]-578, "Specieller Theil."; [579]-587, "Anhang. | Die Gemengtheile der Meteoriten.; [588], Blank.; [589]-606, "Register."; [At end], 2 plates.

SCARCE. A supplement at the end discusses meteorites on which Tschermak was an authority.

REFERENCES: BL: [no copy listed]. • Dana's 7th (Bibliography): 82.

4681. 4th edition, 1894: Lehrbuch | Der | Mineralogie | Von | Dr. Gustav Tschermak, | K.K. Hofrath, O.Ö. Professor Der Mineralogie Und Petrographie An Der Wiener Universität. | [...2 lines of quotation...] | Vierte, Verbesserte Und Vermehrte Auflage. | Mit 855 Original-Abbildungen Und 2 Farberdrucktafeln. | [rule] | Wien, 1894. | Alfred Hölder | K. u. K. Hof- Und Universitäts-Buchhändler | Rothenthurmstrasse 15.

8°: [i]-x, [1]-607, [1] p., 855 illus., 2 colored plates. PAGE SIZE: 238 x 160 mm.

CONTENTS: [i-ii], Title page, verso "Alle rechte, auch das der Übersetzung, vorbehalten."; [iii]-vi, Forwards to the first, second, third and fourth editions.; [vii]-x, "Inhalt."; [1]-10, "Einleitung."; [11]-326, "Allgemeiner Theil."; [327]-580, "Specieller Theil."; [581]-588, "Anhang. | Die Gemengtheile der Meteoriten.; [589]-607, "Register."; [1 pg], "Verbesserungen."; [At end], 2 plates.

SCARCE. The introduction contains a historical essay of a few pages describing the developmental history of

mineralogy. A supplement at the end discusses meteorites on which Tschermak was an authority.

REFERENCES: BL: [no copy listed]. • USGS Library Catalog.

**4682. 5th edition, 1897:** Lehrbuch | Der | Mineralogie | Von | Dr. Gustav Tschermak, | O.Ö. Professor Der Mineralogie Und Petrographie An Der Wiener Universität. | [...2 lines of quotation...] | Fünfte, Verbesserte Und Vermehrte Auflage. | Mit 836 Original-Abbildungen Und 2 Farbendrucktafeln. | [rule] | Wien, 1897. | Alfred Hölder | K.U.K. Hof- Und Universitäts-Buchhändler | Rothenthurmstrasse 15.

8°: [i]-x, [1]-609, [1] p., 836 illus., 2 colored plates showing optical interference patterns. PAGE SIZE: 240 x 170 mm. SCARCE.

CONTENTS: [i-ii], Title page, verso "Alle Rechte..."; [iii]-vi, "Vorwort zur ersten [-fünfte] Auflage."; [vii]-x, "Inhalt."; [1]-582, Text.; [583]-590, "Anhang. Die Gemengtheile der Meteoriten."; [591]-609, "Register."; [1 pg], "Verbesserungen."; [At end], 2 plates.

REFERENCES: BL: [no copy listed].

**4683. 6th edition, 1905:** Lehrbuch | Der | Mineralogie | Von | Dr. Gustav Tschermak, | O.Ö. Professor Der Mineralogie Und Petrographie An Der Wiener Universität. | Sechste, Verbesserte Und Vermehrte Auflage. | Mit 944 Original-Abbildungen Und 2 Farbendrucktafeln. | [rule] | Wien, 1905. | Alfred Hölder | K.U.K. Hof- Und Universitäts-Buchhändler | I., Rotenturmstrasse 13.

8°: [i]-xii, [1]-682 p., 2 colored plates showing optical interference patterns. PAGE SIZE: 240 x 170 mm.

CONTENTS: [i-ii], Title page, "Alle Rechte..."; [iii]-vii, "Vorwort zur ersten [-sechster] Auflage."; [viii], Blank.; [ix]-xii, "Inhalt."; [1]-650, Text.; [651]-658, "Anhang. Die Gemengtheile der Meteoriten."; [659]-682, "Register."; [At end], 2 plates.

SCARCE. The text is divided into two main sections. In the general portion (pp. 1-378) are discussed basic definitions, morphology, mineral physics, mineral chemistry, ore formation, and mineral classification. In the specialized section (pp. 379-650) the descriptive mineralogy is presented. A short appendix at the end discusses meteorites, a particular interest of Tschermak. The text is heavily illustrated with diagrams, instruments, and many crystal drawings.

REFERENCES: BL: [07107.k.35].

### Becke's Coauthorship

Beginning with the seventh edition of 1915, Friedrich Becke joined Tschermak to author future editions of the *Lehrbuch der Mineralogie*. This collaboration resulted in one of the best mineralogical textbooks ever written.

**4684. 7th edition, 1915:** Lehrbuch der Mineralogie. 7. verbesserte und vermehrte Auflage bearbeitet von Dr. Friedrich Becke. Wien und Leipzig, A.Hölder 1915.

8°: 738 p., 960 illus., 2 colored plates. SCARCE.

**Friedrich Johann Karl Becke.** (BORN: Prague, Czechoslovakia, 31 December 1855; DIED: Vienna, Austria, 18 June 1931) *Czech/Austrian mineralogist*. Becke studied mineralogy at Vienna under Tschermak and Schrauf, graduating in 1880. In 1882, he became professor of mineralogy at the University of Czernowitz [now Cernăuți, Romania], and in 1890, at the German University at Prague. In 1898, he succeeded A. Schrauf at the University of Vienna, and later, G. Tschermak, retiring in 1927. Becke was an expert and pioneer in optical mineralogy, and from 1899, he acted as editor of *Tschermaks Mineralogische und Petrographische Mittheilungen*. He won the Wollaston Medal of the Geological Society of London in 1929.

REFERENCES: BL: [YA.1993.b.11797]. (Becke) *American Mineralogist*: 17 (1932), 226-7. • *C.R. Acad.Sci., Paris*: 193 (1931), 553-5. • DBA: II 85, 353-377. • DSB: 1, 551-2 [by H. Baumgärtel]. • Freund & Berg, *Geschichte der Mikroskopie*, 1966. • *Geologiska Föreningens i Stockholm Förhandlingar*:

1931, 329-37. • La Rocque, *History of Geology*, 1964: 1, 14-5 [by R.E. Metter]. • *Mineralogical Magazine*: 23 (1932), no. 141, 341-2, portrait. • *Mittheilungen der Geologische Gesellschaft in Wien*: 24 (1931), 137-46. • *Nachr.Ges.Wiss. Göttingen, Mitt.*: 1931-2, 70-3. • NDB: 1, 708-9 [by W. Fischer]. • Poggendorff: 4, 83-4 & ??? • Sarjeant, *Geologists*, 1980: 2, 517-8, Suppl. 1(1986), 1, 281 & Suppl. 2 (1995), 1, 424. • Tertsch, H., "Erinnerungen an Friedrich Becke. Festschrift zur Enthüllung des F. Becke-Denkmales in den Arkaden der Wiener Universität am 18 Juni, 1956," *Mitt. öst. miner. Ges. Sonderh.*, no. 4, 32 p. • *Tschermaks mineralogische und petrographische Mittheilungen*: 42 (1932), i-viii. • WBL. • *World Who's Who in Science*: 139.

**4685. 8th edition, 1921:** Lehrbuch | der | Mineralogie | von | Dr. Gustav Tschermak, | O.Ö. Professor Der Mineralogie und Petrographie an der Wiener Universität. | Achte, Verbesserte und Vermehrte Auflage. | Bearbeitet von | Dr. Friedrich Becke, | O.Ö. Professor der Mineralogie und der Wiener Universität. | Mit 977 Originalabbildungen und 2 Farberdrucktafeln. | Wien und Leipzig. | Alfred Hölder, | Universitäts-Buchhändler, | Buchhändler der Akademie der Wissenschaften. | 1921.

8°: xii, 751, [1] p., 2 color plates, illus., index, biblio. SCARCE.

REFERENCES: BL: [W31/6615].

**4686. 9th edition, 1923:** Lehrbuch der Mineralogie Bearbeitet von Friedrich Becke. 9. Auflage. Wien, Leipzig:, Hölder-Pichler-Tempsky 1923.

8°. xii, 751 p., 977 illus., 2 colored plates.

SCARCE. Allgemeine Mineralogie S. 1 - 421 Spezielle Mineralogie S. 422 - 723 Register S. 725 - 751

REFERENCES: BL: [no copy listed].

### Russian Edition

**4687. Russian transl., 1884:** Учебник Минералогии. [Uchebnik Mineralogii.] St. Petersburg, 1884.

8°:

VERY RARE. Apparently a Russian translation of Tschermak's *Lehrbuch der Mineralogie* (1st ed., Wien, 1884).

REFERENCES: BL: [no copy listed]. • Povarennykh, *Definition of Mineral*, 1964.

**4688. Italian transl., 1883:** Trattato di Mineralogia. Firenze, Successori le Monnier, 1883-5.

2 vols. 8°: XXIII, 315 p., 2 plates.; XXIV, 262 p.

VERY SCARCE. Opera tradotta dal tedesco, sulla seconda edizione migliorata col consenso dell'Autore (Consigliere aulico, Professore ordinario di Mineralogia e Petrografia nell'Universita' di Vienna) da Giuseppe Grattarola (Professore ordinario di Mineralogia nel R. Istituto di Studi Superiori, Pratici e di Perfezionamento, in Firenze). Suddivisa in due volumi: Parte generale, illustrata da 300 figure nel testo e 2 cromolitografie. Morfologia, fisica minerale, chimica minerale, giaciture (topica dei minerali) e classificazione. Parte speciale, con 406 incisioni originali nel testo. Elementi, lampriti, spinelloidi, silicoidi, nitroidi, gessoidi, haliti, antracidi e gli elementi delle meteoriti. Lievi mancanze al dorso, ottimo esemplare. Brossura editoriale cartacea illustrata,

### Polish Editions

**4689. First edition, 1900:** [One line of text ending in „Wszczęświata”.] | [rule] | Prof. Dr. G. Tschermak. | [rule] | Podręcznik | Mineralogii | dzieło, zawierające 840 drzeworytów i III tablice kolorowe. | [Two lines of quotation signed J. Kochanowski (1586).] | Z piątego wydania niemieckiego przełożył, uzupełnił i przedmową historyczną | opatrzył | Józef Morzewicz. | [rule] | (Wydanie Kasy pomocy dla osób, pracujących na polu naukowem, imienia | d-ra Józefa Mianowskiego). | [rule] | Warszawa. | Skład Główny W Księgarni E. Wendego i Spółki | Krakowskie - Przedmieście Nr. 9. | [short rule]

## TUĆAN

[ 1900. | Druk Rubieszewskiego i Wrotnowskiego, Nowy-Świat 34.

8°: [4], [i]-xliv, [1]-702 p., 3 chromolithograph plates, 840 illus., biblio., index.

CONTENTS: [2 pgs], Title page, verso one line in Russian.; [1 pg], "Ku uczczeniu | 500-lecia | Wszecznicy Jagiellońskiej | 1400-1900."; [1 pg], Blank.; [I]-XXXIX, "Przedmowa Tłómacza. | (Przegląd historyczny podręczników mineralogii w Polsce.); [XXXX], Blank.; [XXXI]-XLIV, "Spis rzeczy." [=table of contents]; [1]-649, Text.; [650]-659, "Dodatek. | [rule] | Części składowe meteorytów."; [660]-669, "Dopełnienie Części Szczegółowej."; 670-673, "Skorowidz części ogólnej." [=subject index]; [674]-699, "Skorowidz części szczegółowej." [=index of species]; [700], Blank.; [701]-702, "Sprostowania."; [At end], 3 color plates.

RARE. Polish translation by JÓZEF MOROZEWICZ [see note below] of *Lehrbuch der Mineralogie* (5th ed., Wien, 1897). On pages i-xxix of the introduction the translator has included an important survey of the history of mineralogy in Poland. Otherwise, the text has been translated from the German edition faithfully, although notes on occurrences of species within the Polish borders have been included.

**Józef Marian Morozewicz.** (BORN: Lomza, Poland, 19 March 1865; DIED: Warsaw, Poland, 12 December 1941) *Polish mineralogist & geologist.* Morozewicz was one of the greatest of Polish geologists and mineralogists. He is remembered for his comprehensive studies of the geology of Poland.

REFERENCES: BL: [no copy listed]. • Fleszarowa, *Bibliografia Geologiczna Polski*, 1966: 1, pt. 1, p. 469 [no. 8303]. (Morozewicz) Orgelbranda, *Encyklopedia Powszechna*, 1898-1912. • PBA: *Polskie Archiwum Biograficzne*: 381, 299-323 / Diana, M.J. 1, 247. • Poggendorff: 4, 1032, 5, 877-8, 6, 1782-3, & 7b, 3406-7. • *Polski Słownik Biograficzny*: 21, 779-80 [by Z.J. Wójcik]. • Sarjeant, *Geologists*, 1980. • WBI.

**4690. 2nd edition, 1931:** G. Tschermak — F. Becke | [rule] | Podręcznik | Mineralogji | Dzeło, zawierające 970 figur w tekście oraz 3 tablice kolorowe | i 1 tablicę roentgenogramów. | Wydanie Polskie Drugie | Według I-go wydania polskiego oraz IX-go wydania niemieckiego — za zgodą współautora | F. Beckego i wydawców: Hölder—Pichler—Tempsey, A.G. Wiedeń, 1923 — | uzupełnili: | [2 lines: J. Morozewicz | Dyrekto P. Instytutu Geologicznego] i [2 lines: T.J. Woyno | Profesor Politechniki Warszawskiej.] | [2 lines of quotation, signed Jan Kochanowski (1586)] | Wydawnictwo | Kasa im. Mianowskiego | Instytutu Popierania Nauki | Warszawa — Pałac Staszica | 1931.

4°: [4], [i]-liv, [1]-838, [4] p., 4 plates (3 colored), 970 illus., index. PAGE SIZE: 246 x 174 mm.

CONTENTS: [2 pgs], Half title page, "Podręcznik | Mineralogji," verso blank.; [2 pgs], Title page, verso "Drukarnia i Litografia | Jan Cotty | w Warszawie, Kapucyńska 7."; [i]-xl, "Przedmowa do wydania I-go."—signed Józef Morozewicz, 1900.; [xli]-xlvi, "Uzupełnienie Przedmowy Do Wydania I."—signed J. Morozewicz, 1930.; [xlvi]-xlix, "Przedmowa do wydania II."—signed T.J. Woyno and J. Morozewicz, 1931.; [l], Blank.; [li]-liv, "Spis rzeczy." [=table of contents]; [1]-816, Text.; [817]-823, Subject index.; [824]-838, Index to mineral species.; [2 pgs], Errata.; [At end], 4 plates (3 colored); [1 pg], Explanation of plates.; [1 pg], Blank.

RARE. Polish translation by JÓZEF MOROZEWICZ of Tschermak's *Lehrbuch der Mineralogie* (9th ed., Wien, 1923), updated from the 1900 edition with new material by TADEUSZ JERZY WOYNO [1884-19—]. The history of Polish mineralogy has also been revised and contains two additions bringing it current to 1930. The text covers morphology, mineral physics, chemistry, Polish occurrences of minerals, and a long systematic mineralogy. At the end, meteorites are covered. The 4 plates show optical patterns,

crystal diagrams and X-ray diffraction patterns resulting from the Röntgen method.

**Tadeusz Jerzy Woyno.** (BORN: 1884; DIED: after 1932) *Polish mineralogist.*

REFERENCES: BL: [no copy listed]. • Fleszarowa, *Bibliografia Geologiczna Polski*, 1966: 1, pt. 1, p. 469 [no. 8304]. • *USGS Library Catalog.* (Woyno) PBA: *Polskie Archiwum Biograficzne*: 588, 398. • WBI.

## TUĆAN, Franz.

### 4691. — Slav?, 1922.

Prilozi za poznavanje minerala u Jugoslaviji. 1. Titanit iz Gabra kod Jablanice u Hercegovini. — 2. Amfibol iz andezita od Golupca u Južnoj Srbiji (Makedoniji). — 3. Amfibolni azbest iz zelenoga škriljavca Zagrebačke Gore. (Materiaux pour la connaissance des minéraux en Yougoslavie). Beograd, 1922.

8°: 193 p., 8 plates. A study of the silicate minerals found in Yugoslavia, including Serbia and Macedonia. VERY SCARCE.

REFERENCES: BL: [no copy listed]. • Milojević, *Geološka Bibliografija Jugoslavije*, 1952: p. 295.

**TUTTON, Alfred Edwin Howard.** (BORN: Stockport, Cheshire, England, 22 August 1864; DIED: Dallington, Sussex, England, 14 July 1938) *English chemist & crystallographer.*

In 1883, based upon his exam scores, Tutton entered the Royal College of Science in London. There he gained prizes in chemistry and physics and the Murchison medal in geology. He was afterwards appointed demonstrator and lecturer in chemistry. He became an instructor at Oxford and Cambridge, retiring in 1927. During research work on the oxides of phosphorus, he was so attracted by the brilliant crystals that he sought out H.A. MIERS of the British Museum for instruction on crystal measurement. Thus, Tutton found his life's work in recording precise measurements of crystals for series of isomorphous salts. In connection with this research, elaborate pieces of apparatus were designed under Tutton's direction. This equipment was given to the department of physics and crystallography in Manchester University. He was a Fellow of the Royal Society, the Chemical Society and the Mineralogical Society of Great Britain.

REFERENCES: *Annual Register.* • Barr, *Index to Biographical Fragments*, 1973: 266. • BBA: I 1102, 224; II 1813, 22. • DNB: Suppl. 1931-40, 875-6. • DSB: 13, 517-8 [by D. McKie]. • *ISIS*, 1913-65: 2, 565. • *Mineralogical Magazine*: 25 (1939), no. 165, 301-3, portrait. • *Nature*: 60 (1899), 33 & 142 (1938), 321-2 [by J.R. Partington]. • *Obituary Notices of the Royal Society*: 2 (1939), no. 7, 621-6, portrait. • Poggendorff: 4, 1532-3 & 5, 1280 & 6, ????. • *Proceedings of the Royal Society of London: Series A*, 169 (1938), 9 [by W. Bragg]. • Sarjeant, *Geologists*, 1980: 3, 2297-8. • WBI.

### 4692. — English, 1910.

Crystalline Structure | and | Chemical Constitution | By | A.E.H. Tutton | [...4 lines of titles and memberships...] | Macmillan and Co., Limited | St. Martin's Street, London | 1910.

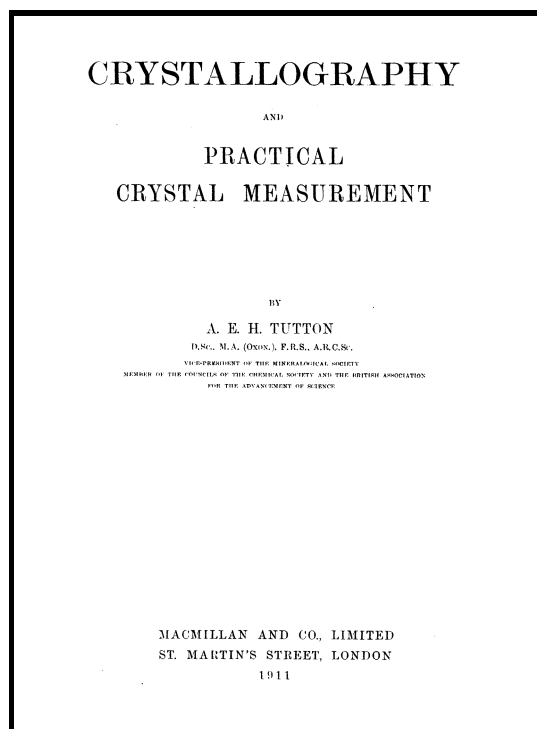
8°: [i]-viii, [1]-204, [4] p., illus. PAGE SIZE: 220 x 142 mm.

CONTENTS: [i-ii], Half title page, "Macmillan's Science Monographs | Crystalline Structure And | Chemical Constitution," verso publisher's information.; [iii-iv], Title

page, verso "Richard Clay and Sons, Limited, | ..."; [v]-vi, "Preface."—signed A.E.H. Tutton.; [vii]-viii, "Contents."; [1]-200, Text.; 201-204, "Index."; [4 pgs], Advertisements.

VERY SCARCE. After a short historical sketch, the author describes his researches into the relationship between chemical composition and crystallography. Among other investigators, the author had studied many isomorphous series of artificial compounds of unusual purity. Some of these compounds were comparatively simple in composition, while others were very complex. Carried out over many years the result of these investigations demonstrated that crystal angles are functions of the chemical composition, much as Haüy had postulated. Tutton discusses the Haüy-Mitscherlich controversy, structure types, the nature of the atom and atoms in crystal structures, isomorphous series, and the apparatus for investigating crystals, including the cutting and grinding goniometer, monochromator, interferometer, dilatometer, optical refractometer, etc. The text describing this complex subject is written in a clear style.

REFERENCES: *Ath*: 1 (1910), 252. • *BL*: [08709.c.1/1.]. • *Book Review Digest*: 1910, p. 403. • *Journal of Geology*: 18 (1910), 582 [review by A.D. Brokaw]. • *Nature*: 83 (5 May 1910), 271. • *NUC*. • *Science*: New Series, 31 (22 April 1910), 623 [review by C. Palache]. • *USGS Library Catalog*.



CRYSTALLOGRAPHY, 1911

**4693.** — **English, 1911** [First edition].

Crystallography | And | Practical | Crystal Measurement | By | A.E.H. Tutton | [...4 lines

of titles and memberships...] | Macmillan And Co., Limited | St. Martin's Street, London | 1911.

8°: [i]-xiv, [1]-544, 544a, [1], 545-946 p. PAGE SIZE: 220 x 148 mm.

CONTENTS: [i-ii], Half title page, "Crystallography | And | Practical Crystal Measurement," verso publisher's information.; [iii-iv], Title page, verso blank.; [v]-viii, "Preface."—signed A.E.H. Tutton.; [ix]-xiv, "Contents."; [1], Sectional title page, "Part I. | Morphological."; [2], Blank.; [3]-544, Text part one.; 544a, Sectional title page, "Part II. | Morphological."; [1 pg], Blank.; 545-933, Text part two.; [934], Blank.; 935-946, "Index."

VERY SCARCE. One of the great modern classics in crystallography noted for its comprehensive coverage and clarity of language, it is also an important touch stone of the science written just prior to von Laue's extraordinary discoveries in 1912 of X-ray crystallography. The text is complete, with almost no topic neglected. It is furthermore a work of practical value delivering "how to do it" instructions, including the definition of crystals, choice of specimens, goniometer, measurements, axes, zones, etc., calculations, the systems, all followed by a second part on physical properties, what they are, how measured, instrumentation, etc. It avoids the forbidding mathematical treatment that pervades almost all other English textbooks in the subject instead delivering a lively review of crystallography that is comparable only to von Groth's *Physikalische Krystallographie* (1st ed., Munich, 1876). The many illustrations that accompany the text are of good quality and visually reinforce principles described in the text.

REFERENCES: *BL*: [07106.ee.6.]. • *Book Review Digest*: 1911, 475. • *Nation*: 93 (1911), 269. • *NUC*. • *Science*: New Series, 34 (28 July 1911), 124 [review by C. Palache]. • *USGS Library Catalog*.

**4694. 2nd edition, 1922:** Crystallography | And | Practical | Crystal Measurement | By | A.E.H. Tutton | [...2 lines of titles and memberships...] | In Two Volumes | Vol. I | Form and Structure | MacMillan and Co., Limited | St. Martin's Street, London | 1922.

2 vols. [VOL 1] 8°: [i]-xvii, 1-746, [i]-xiv, 2 p. [VOL 2] 8°: [i]-viii, 749-1446, 1-2 p., 8 plates, 931 b&w text figures. PAGE SIZE: 220 x 148 mm.

CONTENTS: [Vol 1] [i-ii], Half title page, "Crystallography | And | Practical Crystal Measurement," verso publisher's information.; [iii-iv], Title page, verso "Copyright."; v-vii, "Preface To Second Edition."—signed A.E.H. Tutton.; [viii], Blank.; ix-xii, "Preface To First Edition."; xiii-xvii, "Contents."; [1 pg], Blank.; ["Corrigenda To Volume I" inserted between pages]; [1 pg], Sectional title page, "Part I | Crystal Form And Geometry."; [2], Blank.; 3-493, Text part one.; [494], Blank.; 495, Sectional title page, "Part II | Crystal Structure And Its X-Ray | Analysis."; [496], Blank.; 497-746, Text part two.; [i]-xiv, "Index."; [2 pgs], Advertisements.

[Vol 2] [i-ii], Half title page, "Crystallography | And | Practical Crystal Measurement," verso publisher's information.; [iii-iv], Title page, verso "Copyright."; v-viii, "Contents."; 747, "Part III | Crystal Optics And Microscopy."; [748], Blank.; 749-1218, Text part three.; 1219, Sectional title page, "Part IV | Crystal Chemistry, Deformational Physics | And Its Interferometry."; [1220], Blank.; 1221-1418, Text part four.; 1419-1446, "Index."; 1-2, Advertisements.

VERY SCARCE. Based upon the first edition of 1911 these two volumes form a nadir point in descriptive

## TUTTON

crystallography in the English language. Since the first edition's appearance, crystal science had had a remarkable advance in knowledge due the X-ray study of crystal structure. All of the material and illustrations of the author's monograph, *Crystalline Structure and Chemical Constitution* has been incorporated in this edition. Furthermore, so much more material has been added, that it became necessary to issue the work in two volumes. It follows along the lines of the earlier works and is written in a clear style that even today can convey its meanings successfully, and is fully and beautifully illustrated.

Volume I, Crystal Form and Structure is divided into two parts: (a) Crystal Form and Goniometry, and (b) Crystalline Structure; and its X-ray Analysis. In Part I, the fundamental laws, the geometrical properties of crystals, and the various methods of measurement are discussed in great detail. Part II is one of the most important sections of the book, since it contains chapters summarizing the advances made since the introduction of X-ray analysis. This is clearly seen from the following list of subjects considered in this part: —Composite Crystals and Twinning; Cleavage, (Hiding; Asterism; Hardness; Crystal Viscosity; Foam Cell and Pulsation-Cell Theories; Crystals as Homogeneous Structures; Density. Volume. and Structure; 14 Space Lattices; Molecular Distance Ratios; 65 Regular Point Systems and the 230 Space Groups; Determination of the Density of Crystals and Calculation of Volume Constants; X-ray and Crystal Structure; Absolute Measurement of the Dimensions of the Space Lattice Cell. — Methods of Laue, Bragg, and Debye and Scherrer; Law of Atomic Diameters; Fedorov's Theory of Cubic and Hypohexagonal Types and of the Correct Descriptive Setting of Crystals; His Method of Crystallochemical Analysis; Theory of Pope and Barlow; Moseley's Law, Atomic Number and Atomic Structure.

Volume II, Physical and Chemical, is also made up of two parts, III and IV. Part III, which is given over to Crystal Optics and Microscopy, contains a systematic discussion of the optical properties of crystals and the methods involved in their determination. Crystal Chemistry and Informational Physics and its Chemistry; the general subjects assigned to Part I. Here, isomorphism and related topics, the thermal, elastic, electrical, magnetic properties of crystals, and "liquid crystals" are treated.

**Facsimile reprint, 1964-5:** *Crystallography and Practical Crystal Measurement*. New Delhi, Today & Tomorrow's Book Agency, [1964-65]. 2 vols.

REFERENCES: *American Mineralogist*: 7 (1922), 160 [review by E.H. Kraus]. • BL: [X.629/4833]. • NUC. • *USGS Library Catalog*.

### 4695. — English, 1911.

The International Scientific Series | [rule] | Crystals | By | A.E.H. Tutton | [...5 lines of titles and memberships...] | With 120 Illustrations | London | Kegan Paul, Trench, Trübner & Co. L<sup>td</sup> | Dryden House, Gerrard Street, W. | 1911.

8°: [i]-x, [1]-301, [3] p. PAGE SIZE: 184 x 118 mm.

CONTENTS: [i-ii], Half title page, "International Scientific Series | Volume XCVIII," verso blank; [Frontispiece, "Direct Reproductions Of Autochrome Photo- | graphs Of Screen Pictures In Polarised Light."]; [iii-iv], Title page, verso blank; v-vii, "Preface."—signed A.E.H. Tutton, January 1911.; [viii], Blank.; [ix]-x, "Index."; [1]-294, Text.; 295-301, "Index."; [1 pg], Blank.; [1 pg], "Printed By | Turnbull And Spears, | Edinburgh."; [1 pg], Blank.

SCARCE. Written as an expansion of a lecture given before the British Association at Winnipeg in 1909, *Crystals* is particularly interesting, not only as

THE INTERNATIONAL SCIENTIFIC SERIES

## CRYSTALS

BY

A. E. H. TUTTON

D.Sc., M.A. (NEW COLLEGE, OXON.), F.R.S.

VICE-PRESIDENT OF THE MINERALOGICAL SOCIETY  
MEMBER OF THE COUNCIL OF THE CHEMICAL SOCIETY  
AND THE BRITISH ASSOCIATION FOR THE  
ADVANCEMENT OF SCIENCE

WITH 120 ILLUSTRATIONS

LONDON

KEGAN PAUL, TRENCH, TRÜBNER & CO. L<sup>td</sup>

DRYDEN HOUSE, GERRARD STREET, W.

1911

CRYSTALS, 1911

an attempt to describe the development of the science, but also on account of the detailed descriptions of many experimental illustrations. Its aim is to present the science of crystallography to the general reading public in a manner which can be understood by all, including descriptions of simple experiments for the instructor of crystallography.

REFERENCES: BL: [2324.c.4.]. • *Book Review Digest*: 1912, 458. • Dana's 7th (Bibliography): 82. • *Education Review*: 42 (1911), 310 [review by A.J. Moses]. • *Nature*: 88 (1 Feb. 1912), 440. • NUC. • *USGS Library Catalog*.

**4696. Revised & enlarged edition, 1924:** The Natural History | of | Crystals | By | A.E.H. Tutton | D.Sc. M.A. (New College, Oxon), F.R.S. | Past President of the Mineralogical Society | With 166 Illustrations | including 32 Half-Tone Plates and Frontispiece in Colour | London | Kegan Paul, Trench, Trubner & Co., Ltd. | New York: E.P. Dutton & Co. | 1924.

8°: xii, 287 p., 32 plates.

SCARCE. This work represents a revised and somewhat enlarged edition of the author's former book "Crystals" which appeared in 1911. Some of the chapters are the same as in the earlier volume. The progress that has been made since the appearance of the earlier text, especially in the field of X-ray analysis and crystal structure, has necessitated the introduction of considerable new material. Chapters on "The Nature of Atoms" and "The Revelation of Crystal Structure by X-Rays" have been introduced in order to bring the book up-to-date, that is, to the date of publication, November 1923. The work has it now stands comprises 21 chapters and 166 illustrations as compared with 17 chapters and 120 illustrations of the former text. An excellent glossary describing over eighty technical terms has been added. The book states that the text "is intended for the general

reader more or less interested in the natural science." It is extremely doubtful if this work could serve in that capacity as the treatment is often quite technical and the style, at times, involved. The book can serve to advantage as collateral reading for students pursuing more or less advanced work in crystallography. The numerous illustrations are excellent and well chosen. [The American Mineralogist (1925); vol. 10, p. 446]

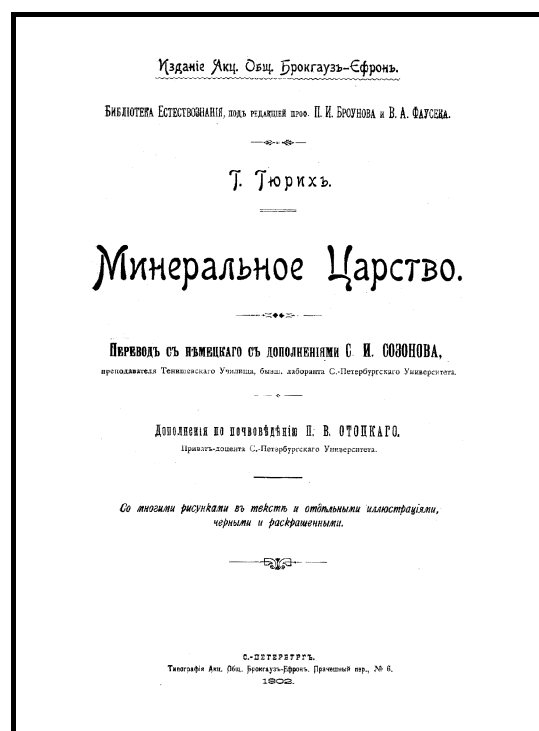
REFERENCES: *American Mineralogist*: 10, 446. • BL: [07105.ee.28.]. • Dana's 7th (Bibliography): 82. • NUC.

#### 4697. — English, 1927.

The Natural History | Of Ice And Snow | Illustrated From The Alps | By | A.E.H. Tutton | [...3 lines of titles and memberships...] | With 48 full-page plates (174 figures) | 16 text illustrations and a map | "O ye Ice and Snow, bless ye the Lord: | Praise Him, and magnify Him for ever" | London | Kegan Paul, Trench, Trubner & Co. Ltd. | Broadway House: 68-74 Carter Lane, E.C. | 1927.

8°: xvi, 319 p., plates XLVIII. SCARCE.

REFERENCES: BL: [10195.cc.32.]. • NUC.



MINERAL'NOE TSARSTVO, 1902

TYURIKH (Tiurikh), T. *Russian mineralogist.*

#### 4698. — Russian, 1902.

Mineral'noe Tsarstvo. St. Petersburg, 1902.

8°: [i]-viii, [1]-722 p., illus., plates, index. PAGE SIZE: 264 x 168 mm.

CONTENTS: [i-ii], Title page, verso blank.; [iii]-iv, "Содержание." [=contents.]; [v]-vi, "Перечень

Отдѣльныхъ Иллюстрацій."; [vii]-viii, "Предисловіе къ русскому изданію."—signed С. Созонов [=S. Sozonov.]; [1]-689, Text.; [690]-722, "Предметный указатель." [=systematic index].

VERY SCARCE. "Mineral Kingdom" is a textbook that treats the mineralogy, geology, paleontology and mining practices as viewed in Russia at the beginning of the 20th century. The basics of mineralogy are covered in the first portion and include crystal form, physical properties, refraction, polarization, chemistry. Gemstones are treated in a long section and include comparisons of diamonds from South Africa and the Urals, rubies, garnets, agates, lapidary craft, etc. Geology, paleontology and mining are covered in later sections. Throughout, the text is heavily illustrated with good quality renderings and scattered plates. These all figure subjects discussed in the text. Remarkably, there does not appear to be a reference to any other literature in this otherwise comprehensive treatment. A complete index at the end makes the work easier to use. The preface is signed by E.S. Sozonov [see note below].

Egor Sergeevich Sozonov. (BORN: 26 May 1879; DIED: 27 November 1910) *Russian revolutionary.*

[ BIOGRAPHY NEEDED ]

REFERENCES: BL: [no copy listed]. (Sozonov)

#### ÜBERSICHT DER SAMMLUNGEN DES K.K. MINERALOGISCHEN CABINETS.

Übersicht der Sammlungen des K.K. Mineralogischen Cabinets. (Wien, 1873).

See: Vienna, Austria. K.k. hof-mineralien-kabinet.

UHDE, August Wilhelm Julius. (BORN: Königsutter, Brunswick, Saxony, Germany, 26 April 1807; DIED: 1861) *German.*

First instructor of mathematics and physics at the gymnasium at Aurich, 1829–31, followed by a position at Oldenburg, 1831 to 35. He became a professor of mathematics and physics at the Carolinum of Braunschweig in 1836. There he was elevated to the post of chancellor, a position he held from 1840 to 1852.

REFERENCES: Poggendorff: 2, col. 1151.

#### 4699. — German, 1833.

Versuch einer genetischen Entwicklung der mechanischen Krystallisations-Gesetze, &c. Bremen, 1833.

8°: xxvi, 371, [1] p., 4 plates. VERY SCARCE.

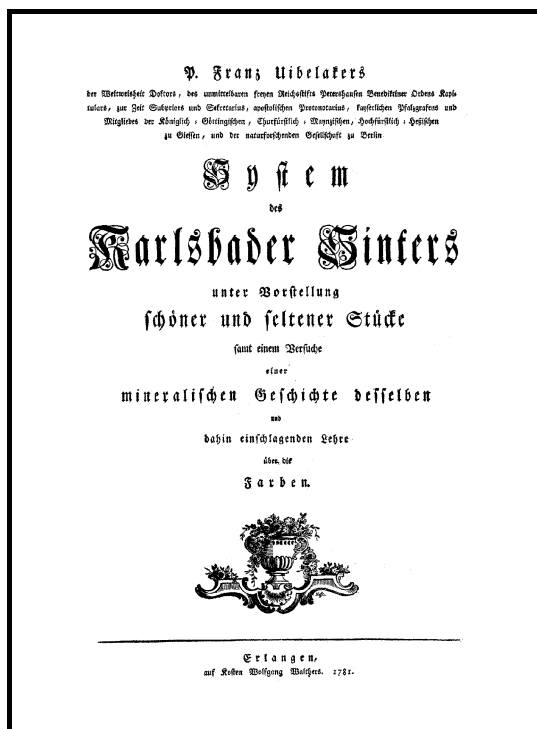
REFERENCES: Adams Library. • BL: [8705.df.17.]. • BMC: 5, 2160.

UIBELAKER (Uebelacker), P. Franz. *German physician.*

Uibelaker was associated with the Benedictine Order. He was a member of the Natural History Society of Berlin.

#### 4700. — German, 1781-2.

P. Franz Uibelakers | [...4 lines of titles and memberships...] | System | des | Karlsbader Sinters | unter Vorstellung | schöner und seltener Stücke | samt einem Versuche | einer | mineralischen Geschichte desselben | und | dahin einschlagenden



SYSTEM DES KARLSBADER SINTERS, 1781

Lehre | über die | Farben. | [ornament] | [rule] | Erlangen, | auf Kosten Wolfgang Walthers. 1781.

Issued in four parts. 2<sup>o</sup>: )(2 )(2 A-S2; 40*l.*; [8], [1]-72 p., 39 hand-colored plates by Lachenbauer. However, Gatterer states the work contains 41 plates, which is an error.

CONTENTS: [2 pgs], Title page, verso blank.; [4 pg], Dedication to Joseph Wenzel, signed P. Franz Uibelaker.; [2 pgs], "Vorrede."—dated 15 December 1779.; [1]-72, Text.; [At end], 39 hand-colored plates.

VERY RARE. This work describes and illustrates sections of stalactites and stalagmites (254 specimens in all) from the famous Karlsbad caverns of Germany. Until recently this book written in the eighteenth century was the standard work on its subject. According to the forward, Uibelaker selected these specimens from his collection of over 600 examples to best illustrate the varieties of color and form found within the caverns. They are illustrated in lively hand-colored renderings on the thirty-nine plates. Also included are two color wheels based on the schemes of Schiffermüller and Newton. Gatterer says of this work that "it contains many new observations, mostly related to microscopic observations and vocabulary, but ... is confused with too many hypotheses. The plates are beautiful."

REFERENCES: Beckmann *P.Ö.B.*: 8 (1782), 269. • Bernard Quaritch, Bookseller: cat. 1052 (1985), no. 291. • BL: [459.e.19]. • BMC: 5, 2161. • Cobres, *Deliciae Cobresianae*, 1782: 2, 745 & 828. • Dittmar, V. and G. Lehrberger, eds., *Der Sprudel macht den Stein — Schätze aus Karlsbad*. Katalog zur gleichnamigen Ausstellung im

Egerland-Museum Marktredwitz von 23. Oktober 2004 bis 1. Mai 2005. Berlin, 2004. [1]-528 p., num. illus. [Extensive catalog of an exhibit of materials related to the Karlsbad caverns of Germany.]. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 74-5. • LKG: XVI 301.

**ULLMANN, Johann Christoph.** (BORN: Cassel, Hesse, Germany, 3 September 1771; DIED: Marburg, Hesse, Germany, 6 August 1821) *German educator*.

Ullmann graduated with a Ph.D. from Marburg in 1792. From 1793 to '97 he was professor extraordinary of philosophy and economics at the University of Marburg, and eventually became ordinary professor of statesmanship.

REFERENCES: ADB: 39, 196. • DBA: I 1294, 86-90; II 1327, 178. • Hamberger & Meusel, *Gelehrte Deutschland*, 1796-1834. • Poggendorff: 2, col. 1154. • Schürmann, K., *200 Jahre Hessisches Mineralien-Kabinet 1790-1990. Festschrift*. Marburg, 1990: 11-4. • Wagner, K.F.C., *Memorial Joannis Christophori Ullmanni*. Marburg, 1822. 26 p. • WBI.

#### 4701. — German, 1802-3.

Dr. J.C. Ullmann's ... Mineralogische Beobachtungen. Marburg, 1802-3.

2 heft. [Heft 1: 1802] 8<sup>o</sup>: 160 p., 4 plates. [Heft 2: 1803] 8<sup>o</sup>: ??, VERY SCARCE.

REFERENCES: BL: [no copy listed]. • BMC: 5, 2162. • LKG: VI 115.

#### 4702. — German, 1803.

Mineralogische berg- und hüttenmännische | Beobachtungen | über die | Gebirge, | Grubenbaue und Hüttenwerke | der | Hessen-Casselischen Landschaft | An Der Edder | angestellt und aufgezeichnet | von | Ioahnn Christoph Ullmann, | [...6 lines of titles and memberships...] | [rule] | Mit Vier Kupfertafeln. | [tapered rule] | Marburg, | in der neuen academischen Buchhandlung | 1803. 8<sup>o</sup>: XXXIV, 303 p., 4 plates. VERY SCARCE.

REFERENCES: BL: [725.d.5.]. • LKG: XIV 134.

#### 4703. — German, 1814.

Systematisch-tabellarische Uebersicht | der | mineralogisch-einfachen Fossilien, | mit | erläuternden Anmerkungen und ausführlichen Beschreibungen ver- | schiedener neu entdeckter Fossilien, | herausgegeben | von | Dr. Johann Christoph Ullmann, | [...5 lines of titles and memberships...] | [ornate rule] | Cassel und Marburg | in der Kriedgerschen Buchhandlung. 1814.

4<sup>o</sup>: viii, 490 p. VERY SCARCE.

REFERENCES: BL: [982.e.23.]. • BMC: 5, 2162. • Dana's 7th (Bibliography): 82.

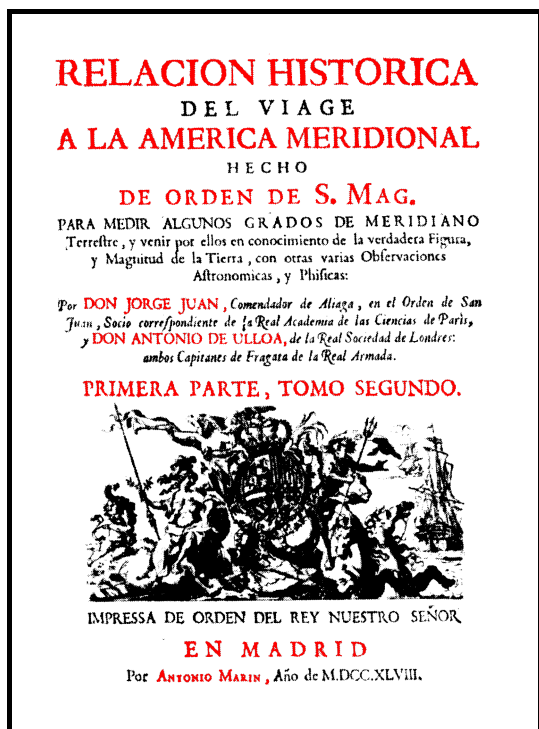
#### ULLOA, Don Antonio de.

REFERENCES: Poggendorff: 2, col. 115?.

#### Spanish editions

#### 4704. — Spanish, 1748 [First edition].

[In red:] Relacion Historica | [in black:] Del Viage | [in red:] A La America Meridional | [in black:] Hecho | [in red:] de orden de S. Mag. | [in black:] Para Medir Algunos Grados De Meridiano | Terrestre,



RELACION HISTORICA, 1748

y venir por ellos en conocimiento de la verdadera Figura, y Magnitud de la Tierra, con otras varias Observaciones | Astronomicas, y Phisicas: | Por [in red:] Don Jorge Juan, [in black:] Comendador de Aliaga, en el Orden de San | [...one line of titles...] | y [in red:] Don Antonio de Ulloa, [in black:] de la Real Sociedad de Londres: | [...one line of titles...] | [in red:] Primera Parte, Tomo Segundo. | [in black, vignette] | Impressa De Orden Del Rey Nuestro Señor | [in red:] En Madrid | [in black:] Por [in red:] Antonio Marin, [in black:] Año de M.DCC.XLVIII.

4 vols. [VOL 1] 2°:  $\pi^4$  -4 A-Z<sup>4</sup> Aa-Zz<sup>4</sup> Aaa-Ddd<sup>4</sup> Eee<sup>2</sup>; 214 $\ell$ .; [24], 404 p., 14 plates. [VOL 2] 2°:  $\pi^4$  Fff-Zzz<sup>4</sup> Aaaa-Qqqq<sup>4</sup>; 141 $\ell$ .; [4], 405-682 p., 8 plates. [VOL 3] 2°:  $\pi^6$  A-Z<sup>4</sup> Aa-Zz<sup>4</sup> Aaa<sup>4</sup> Bbb<sup>2</sup>; 196 $\ell$ .; [12], 379, [1] p., 10 plates. [VOL 4] 2°:  $\pi^6$  A-Z<sup>4</sup> Aa-Zz<sup>4</sup> Aaa<sup>4</sup> Bbb<sup>2</sup>;  $\pi^2$  Ccc-Zzz<sup>4</sup> Aaaa-Zzzz<sup>4</sup> Aaaa-Gggg<sup>4</sup> Hhhh<sup>6</sup>; 112 $\ell$ .; [4], 381-603, [1] p.; [I]-CXCIV, [1] p., 3 plates. Title in red and black.

CONTENTS: [Vol 1] No copy examined.

[Vol 2] [2 pgs], Half title page, verso blank.; [Frontispiece].; [2 pgs], Title page, verso blank.; [405]-640, Text, beginning "Libro Sexto."; 641-682, "Índice | De Las Materias, | Y Cosas Notables | Contenidas En Esta Primera Parte."

[Vol 3] [2 pgs], Half title page, "... Segunda Parte, Tomo Tercera," verso blank.; [Frontispiece].; [2 pgs], Title page, verso blank.; [6 pgs], "Tabla | De Los Libros, | y capitulos."; [1 pg], "Erratus, Que Se Han De Corregir | en esta Segunda Parte."; [1 pg], Blank.; [1]-379, Text.; [1 pg], Blank.

[Vol 4] No copy examined.

VERY SCARCE. Antonio de Ulloa and his companion Jorge Juan went with an expedition to Peru mounted by the French Academy of Sciences in 1735 whose ultimate purpose was to determine the size of the planet. Spanish colonies were normally closed to foreign expeditions, but the King of Spain made exception for the French Academy and sent his gifted young scientific officers, Ulloa and Juan, to share the glory. Sabin wrote, "Juan and Ulloa's Travels may be selected as the most entertaining and satisfactory work of its kind; they are the acknowledged source of much that has been published in other forms."

REFERENCES: BL: [no copy listed]. • Hoover Collection: no. 799. • LKG: XIV 895. • Medina, *Bibliotheca Hispano-Americana 1493-1810*: 346. • Palau, *Manual*, 1948-77: no. 125471. • Sabin, *Dictionary*, 1868-1936: no. ??.

4705. 2nd edition??, 1792: Noticias Americanas: | Entretenimientos Físicos-Históricos | Sobre | La América Meridional, Y La Septentrional | Oriental | Comparacion General | De Los Territorios, Climas, Y Producciones | En Las Tres Especies | Vegetales, Animales Y Mineral; | Con Relacion Particular | De Los Indios De Aquellos Países, Sus Costumbres | Y Usos, De Las Petrificaciones De Cuerpos | Marinos, Y De Las Antigüedades. | Con un discurso sobre el idioma, y conjeturas sobre el | modo con que pasaron los primeros pobladores. | Su Autor | El Esce. Sr. Don Antonio de Ulloa, Comenisdor de Ocabs en la | [...3 lines of titles and memberships...] | Con Licencia. | Madrid El La Imprenta Real. | Año 1792.

8°; [24], 407, [2] p. VERY SCARCE.

REFERENCES: BL: [979.i.30.]. • LKG: XIV 897b. • NUC. • USGS Library Catalog.

### French editions

4706. French transl., 1752: [In red:] Voyage | [in black:] Historique | [in red:] De L'Amerique | [in black:] Meridionale | Fait Par Ordre Du Roi D'Espagne | [in red:] Par Don George Juan, | [...in black, 2 lines of titles and membership...] | [in black:] Et | [in red:] Par Don Antoine de Ulloa, | [...in black, 3 lines of titles and memberships...] | Ouvrage Orné Des Figures, Plans Et Cartes Necessaires. | Et qui contient une | [in red:] Histoire Des Yncas Du Peruo, | [in black:] Et les Observations Astronomiques & Physiques, faites pour détermi- | ner la Figure & la Grandeur de la Terre. | [in red:] Tome Premier. | [in black, vignette] | [in red:] A Amsterdam et A Leipzig, | [in black:] Chez Arkste'e & Merkus. | [in red:] M DCC LII.

2 vols. fronts., plates (part fold.) fold. maps, fold. plans, fold. diagrs. PAGE SIZE: 260 x 220 mm.

VERY SCARCE. A translation, by E. de Mauvillon, of Ulloa's "Relación historica del viage a la America Meridional", and of the companion work by Jorge Juan y Santacilia, entitled, "Observations astronomicas y phisicas hechas ... en los reynos del Peru", both published at Madrid in 1748.

REFERENCES: BL: [211.c.7.8.]. • LKG: XIV 896a.

4707. 2nd edition, 1787: Voyage historique de l'Amerique Meridionale fait par ordre du roi d'Espagne par don George Juan et par don Antoine de Ulloa ... 1787

2 vols. VERY SCARCE.

REFERENCES: BL: [no copy listed].

### English editions

4708. First edition, 1758: A voyage to South America: describing at large the Spanish cities, towns, provinces, &c. on that extensive continent. London, Printed for L. Davis and C. Reymers, 1758.



## ULRICH

2 vols. [VOL 1] 8<sup>o</sup>: xvi, [8], 509 p. [VOL 2] 8<sup>o</sup>: [6], 420, [18] p., 7 copper engraved plates and maps (6 folding).

VERY SCARCE. A translation of Ulloa's *Relacion historica del viage a la America Meridional ...* Madrid, 1748. The "Resumen historico del origen, y sucession de los Incas, y demas soberanos del Peru", by Garcilaso de la Vega, found in the original, is omitted from this translation. The account of the scientific work of the expedition, written by Jorg Juan y Santacilla, was published separately, Madrid, 1748 under title: "Observaciones astronomicas, y phisicas hechas...en los reynos del Perú..." It is not included in this translation.

This translation does not contain the historical account of the Rulers of Peru, nor the Astronomical Observations of J. Juan y Santacilla.

REFERENCES: BL: [10481.d.10].

**4709. 2nd edition, 1760:** *A Voyage to South America. Describing at Large, The Spanish Cities, Towns, Provinces, &c. on that extensive Continent. Interspersed Throughout With Reflexions on whatever is peculiar in the Religion and Civil Policy; in the Genius, Customs, Manners, Dress, &c. &c. of the several Inhabitants; whether Natives, Spaniards, Creoles, Indians, Mulattoes, or Negroes. Together with The Natural as well as Commercial History of the Country. And an account of the Gold and Silver Mines.* London, Printed for L. Davis and C. Reymers, 1760.

2 vols. [VOL 1] 8<sup>o</sup>: [xxiv], 1-498 p. [VOL 2] 8<sup>o</sup>: [4], 410, [18] p., two folding maps and five plates VERY SCARCE. REFERENCES: BL: [10481.d.11].

**4710. American issue, 1801:** *Voyage of Don George Juan and Don Antonio de Ulloa to South America ...* Philadelphia, Printed and sold by Joseph & James Cruikshank, 1801.

108 p. VERY SCARCE.

REFERENCES: BL: [no copy listed].

**4711. 4th edition, 1806:** *A | Voyage | To | South America: | Describing At Large | The Spanish Cities, Towns, Provinces, &c. | On That | Extensive Continent: | Undertaken, By Command Of The King Of Spain, | By | Don George Juan, | And | Don Antonio De Ulloa, | [...3 lines of titles and memberships...] | Translated From The Original Spanish: | With | Notes And Observations; and An Account Of The | Brazils. | [double rule] | By John Adams, Esq. of Waltham Abbey; | Who resided several Years in thos Parts. | [double rule] | The Fourth Edition. | Illustrated With Plates. | [tapered rule] | Vol. I. | London: | Printed For J. Stockdale, Piccadilly; R. Faulder, Bond- | Street; Longman And Co. Pater-Noster Row; Lackington | And Co. Finsbury Square; And J. Harding, St. James's Street. | [tapered rule] | 1806.*

2 vols. fronts. (fold. map, fold. plan) 5 fold. pl. (incl. plans). [VOL 1] 8<sup>o</sup>: [i]-xxvii, [1], [1]-479, [1] p., frontispiece (folding map), 5 plates (I-V). [VOL 2] 8<sup>o</sup>: [4], [1]-420, [14] p., 2 plates (VI-VII).

CONTENTS: [Vol 1] [i-ii], Title page, verso "J. Brettell, ..."; [iii], Dedication, signed John Stockdale, 26 September 1806; [iv], Blank; [v]-xix, "Preface."; [xx], Blank; [xxi]-xxiii, "Contents | Of | Volume The First."; [xxiv]-xxvii, "Explanation | Of The | Plates."; [1 pg], Blank; [1]-479, Text; [1 pg], Blank.

[Vol 2] [2 pgs], Title page, verso blank; [2 pgs], "Contents | Of | Volume The Second."; [1]-420, Text; [14 pgs], "Index."

VERY SCARCE. Adams, John, Esq. of Waltham Abbey.

Translation of Ulloa's *Relacion historica del viage a la America Meridional ...* Madrid, 1748. The "Resumen historico del origen, y sucession de los Incas, y demas soberanos del Perú", by Garcilaso de la Vega, found in the original, is omitted from this translation. John Adams was not the translator of the English edition, but merely furnished the "Notes and observations" and "Account of the Brazils." The account of the scientific work of the expedition, written by Jorge Juan y Santacilla, was published separately, Madrid, 1748, under title:

*Observaciones astronomicas, y phisicas hechas ... en los reynos del Perú.* It is not included in this translation.

REFERENCES: BL: [279.h.12,13.].

### German editions

**4712. German transl., 1781:** *Physikalisch - historische Nachrichten vom sudlichen und nordostlichen Amerika. Aus dem Spanischer mit Anmerkung von J.A. Dieze.* Leipzig, 1781.

2 vols.

VERY SCARCE. Translated by J.A. Dieze.

REFERENCES: BL: [no copy listed]. • LKG: XIV 898c.

**ULRICH, George Henry Frederick.** (BORN: 1830; DIED: Dunedin, New Zealand, 26 May 1900) *Australian mineralogist.*

Ulrich was director of the School of Mines, Otago University, Dunedin, New Zealand. He was a Fellow of the Geological Society of London.

REFERENCES: *American Journal of Science*: 4th Series, **160** (1900), 250. • *Australasian Biographical Archive*: 383, 93-104. • Barr, *Index to Biographical Fragments*, 1973: 267. • *Dictionary of New Zealand Biography*: **2**, 556-7. • Dunn, *Founders Geological Survey of Victoria*, 1910. • Lambrecht & Quenstedt, *Catalogus*, 1938: 438. • *Nature*: **62** (1900), 272-3. • Poggendorff: **3**, 1377-8 & **4**, 1536. • *Proceedings of the Geological Society, London*: 1901, xlviii-lxxxvi. • *Quarterly Journal of Geological Society of London*: **57** (1901). • Sarjeant, *Geologists*, 1980: **3**, 2307 & Suppl. **2** (1995), **2**, 1155. • WBI.

**4713. — English, 1870.**

Contributions | To The | Mineralogy Of Victoria. | By | George H.F. Ulrich, F.G.S. | Melbourne: | By Authority: John Ferres, Government Printer. | [short rule] | 1870.

8<sup>o</sup>: [1]-32 p.

CONTENTS: [1-2], Title page, verso blank; [3]-32, Text.

VERY SCARCE. Gives a short description of the mineralogy of the state of Victoria in Australia, including gold and tetrahedraite.

**French transl.,** A French translation, see BMC, **5**, p. 2163.

REFERENCES: BMC: **5**, 2163. • Dana's 7th (Bibliography): 82.

**URE, Andrew.** (BORN: Glasgow, Scotland, 18 May 1778; DIED: London, England, 2 January 1857) *Scottish physician & chemist.*

Ure studied medicine at the University of Glasgow, receiving his degree in 1801. In 1804, he was elected to the Chair of Natural Philosophy in the Andersonian Institution. He became a consulting chemist when he moved to London in 1830. Ure was elected a Fellow of the Royal Society in 1822.

REFERENCES: Allibone, *Dictionary of English Literature*, 1859-71. • BBA: I 1107, 38-51. • Boase, *Modern English Biography*, 1892-1921. • DNB: **20**, 40. • DSB: **13**, 547-8. • Farrar, W.V., "Andrew Ure, F.R.S. and the philosophy of manufacturers," *Notes & Records, Royal Sociey of London*, **27** (1973), 299-324. • Partington, *History of Chemistry*, 1961-70: **3**, 722. • Poggendorff: **2**, cols. 1159-61. • Waller, *Dictionary of Universal Biography*, 1857-63. • WBI.

**4714. — English, 1821** [First edition].

A | Dictionary | of | Chemistry, | on the | basis of Mr Nicholson's; | in which | the principles of the science are investigated anew, | and its applications to the phenomena of



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nature, medicine, | mineralogy, agriculture, and manufactures, | detailed. | [rule] | By Andrew Ure, M.D. | Professor of the Andersonian Institution, Member of the Geological Society, | &c. &c. | [rule] | With an | Introductory Dissertation; | containing | instructions for converting the alphabetical arrangement | into a systematic order of study. | [double rule] | London: | Printed for Thomas & George Underwood; J. Highley & Son, | Fleet Street; Simpkin & Marshall, Stationers' Court; | T. Tegg, Cheapside: A. Black, Edinburgh: R. Griffin & Co. | Glasgow: and J. Cumming, Dublin. | [rule] | 1821.

8°:  $\pi^2$  b<sup>8</sup> A-Aaa<sup>8</sup>; 386 $\ell$ .; [i]-xix, [1], [752] p., 15 folding engraved plates & tables. No pagination in the text.

CONTENTS: [i-ii], Title page, verso blank.; [iii], Dedication.; [iv], Blank.; [v]-xix, "Introduction."; [1 pg], "N.B. (regarding the marking of articles by Dr. Ure)."; A1r-Aaa1v, Text.; Aaa2r-Aaa7r, "Appendix."; Aaa7v, Blank.; Aaa8r-Aaa8v, "Additions and Corrections."

VERY SCARCE. **REWORK COMMENTARY:** First edition of a rather scarce book. The great interest Ure "took in the application of science to the arts and industry bore fruit in his Dictionary of Chemistry (1821). This work was originally undertaken at the request of the publishers as a revision of William Nicholson's Dictionary of Chemistry, but Ure said that so much of the latter was obsolete that the work had largely to be rewritten." D.S.B., XIII, p. 547. Ure (1778-1857), a pioneer in the teaching of science to artisans, was one of the first scientists to earn his living as a consultant.

At the urging of a publisher Ure undertook a revision of Nicholson's Dictionary of Chemistry (2ed 1808), however, so much of the material was out of date, some even for 1808, that Ure had to rewrite most

of the work. The Introduction gives a general view of chemistry and a suggested order for the reading of the articles so as to provide a systematic order of study. There were four editions: 2ed 1823, reprinted in 1824; 3rd 1827, repr. 1828; 4th 1831, repr. 1835. The title for the 4th ed became "A Introduction. Aia([1]) A Dictionary of Chemistry. 3Gia([833]) Appendix. on 3H2b(844) imprint as above except 'and' replaces the Following p x are 9 plates, I-VII show apparatus, VIII and IX crystal forms etc. The plates are not signed.

Many of the first fruits of Ure's study of industrial processes were incorporated into his Dictionary of Chemistry, of which the first edition appeared in 1821. He had agreed with a publisher to rewrite and bring up to date an earlier dictionary by William Nicholson, who had died in 1815. On beginning the work he found to his surprise (or so he says) that Nicholson's dictionary was so out of date (containing some material going back to Becher's *Physica Subterranea*!) that the whole book would have to be rewritten. It sold extremely well, and continually grew in size in its several editions (1823, 1824, 1828); it seems to have taken the place of the 'methodical treatise on chemistry' which Ure projected in 1816 (26), and again in the preface to the first edition of the Dictionary, but which never appeared. The book eventually grew into the Dictionary of Arts, Mines, and Manufactures (1839), which ran into seven editions, the last few appearing posthumously by other hands. The various editions include some of the best evidence we have of the actual state of chemical technology at those dates, though they can by no means always be relied on.

REFERENCES: BL: [NU 0293087]. • Brock, *History of Chemistry*, 1993: p. 273-4. • Cole, *Chemical Literature*, 1988: no. 1304. • Duveen, *Bibliotheca Alchemica et Chemica*, 1965: p. 594. • Farrar, W.V., "Andrew Ure, F.R.S. and the philosophy of manufacturers," *Notes & Records, Royal Society of London*, **27** (1973), 299-324: pp. 305-6. • Partington, *History of Chemistry*, 1961-70: **3**, 722-3. • Roller & Goodman, *Catalogue*, 1976: **2**, 526.

**4715. American issue, 1821:** A | Dictionary | of | Chemistry, | on the | basis of Mr. Nicholson's; | in which | the principles of the science are investigated anew, | and its applications to the phenomena of nature, medicine, | mineralogy, agriculture, and manufactures, | detailed. | [double rule] | By Andrew Ure, M.D. | Professor of the Andersonian Institution, member of the Geological Society, | &c. &c. | [double rule] | With an | Introductory Dissertation; | containing | instructions for converting the alphabetical arrangement | into a systematic order of study. | [rule] | First American Edition; | with some additions, notes, and corrections, | By Robert Hare, M.D. | Professor of Chemistry in the University of Pennsylvania. | Assisted by | Franklin Bache, M.D. | member of the American Philosophical Society, and of the Academy of Natural | Sciences of Philadelphia. | In two volumes. | Vol. I. (II.) | Philadelphia: | Published by Robert Desilver, No. 110, Walnut Street. | [rule] | 1821.

2 vols. [VOL 1] 8° in 4s: [i]-xix, [1], [406] p. [VOL 2] 8° in 4s: [370] p., 18 plates. No pagination in the text.

CONTENTS: [Vol 1] [i-ii], Title page, verso copyright.; [iii], Dedication.; [iv], Blank.; [v]-xix, "Introduction."; [1 pg], "N.B. (regarding articles by Dr. Ure) ..."; [1]-[406], Text.

[Vol 2] [1-2], Title page, verso copyright.; [3]-[364], Text.; [365]-[370], "Appendix, ..."

VERY SCARCE. Based on: A dictionary of practical and theoretical chemistry / William Nicholson, 1808 The first American edition was edited by R. Hare who made some additions, particularly of topics on which he had practical experience. Franklin Bache revised the work and read the proofs. Three new plates were added. The sections added by Hare are marked.

REFERENCES: Bolton, *Bibliography of Chemistry*, 1893: p. 79. • *Catalog of the Edgar Fahs Smith Collection*: p. 490. • Cole, *Chemical Literature*, 1988: no. 1305. • Edelstein, *Catalog of the History of Chemistry*, 1981: no. 2369. • NUC: [NU 0293078].

**4716. 2nd enlarged edition, 1823:** A dictionary of chemistry, on the basis of Mr. Nicholson's, in which the principles of the science are investigated anew, and its applications to the phenomena of nature, medicine, mineralogy, agriculture, and manufacturers detailed. With an introductory dissertation: containing instructions for converting the alphabetical arrangement into a systematic order of study. 2d. ed., with numerous additions and corrections. London, Printed for T. Tegg, 1823.

8°: 816 p., 15 plates (part fold.) Based on William Nicholson's A dictionary of practical and theoretical chemistry pub. in 1808. cf. Dict. nat. biog.

VERY SCARCE. A difficult book to find in such fresh condition. Ure undertook this revision at the suggestion of the publisher. The Nicholson Dictionary was out of date and Ure had to revise the entire book. The introduction gives a general view of chemistry and a suggested order of reading for study. The plates are bright clear impressions of chemical experiment set - ups, mineral crystal forms etc.

**4717. 3rd edition, 1828:** A dictionary of chemistry, in which the principles of the science are investigated anew, and its applications to the phenomena of nature, medicine, mineralogy, agriculture, and manufactures, detailed. With an introductory dissertation; containing instructions for converting the alphabetical arrangement into a systematic order of study. 3d ed., with numerous additions and corrections. London, Printed for T. Tegg [etc.] 1828.

8°: xii, 829 p., 9 plates, tables. VERY SCARCE.

**4718. 4th edition, 1830:** A | Dictionary | of | Chemistry | and | Mineralogy, | with their applications. | [rule] | By Andrew Ure, M.D. F.R.S. | Professor of Chemistry in the Andersonian University, Member of the Geological | and Astronomical Societies of London, Correspondent of the Academy of | Natural Sciences of Philadelphia, &c. &c. tec. | [rule] | Fourth Edition, | with numerous improvements. | [rule] | London: | Printed for Thomas Tegg, 73. Cheapside, | and | R. Griffin and Co. Glasgow. | [rule] | 1830.

8°: [i]-xi, [1], [1]-844 p., 9 plates. 838-839 not numbered.

CONTENTS: [i-ii], Title page, verso "Printed by Walker & Greig."; [iii], Dedication.; [iv], Blank.; [v], Advertisement.; [vi], "In the Press, ..."; [vii]-xi, "Introduction."; [1 pg], "Additions and Corrections."; [1]-832, Text.; [833]-844, "Appendix."

VERY SCARCE. Standard reference work covering chemical compounds, preparation, reactions, apparatus, etc. ;

The fourth edition includes a number of new articles and additions to old titles, many of which were rewritten. The Appendix consists of 13 tables including Wollaston's original numerical table of chemical equivalents.

REFERENCES: Cole, *Chemical Literature*, 1988: nos. 1306. • NUC: [NU 0293085].

**4719. 4th edition, 1835:** A | Dictionary | of | Chemistry | and | Mineralogy, | with their applications. | [rule] | By Andrew Ure, M.D. F.R.S. | Professor of Chemistry in the Andersonian University, Member of the Geological | and Astronomical Societies of London, Correspondent of the Academy of | Natural Sciences of Philadelphia, &c.

&c. &c. | [rule] | Fourth edition, | with numerous improvements. | [rule] | London: | Printed for Thomas Tegg & Son, 73. Cheapside; | R. Griffin & Co. Glasgow; and | Tegg, Wise & Co., Dublin. | [rule] | MDCCCXXXV. 8°: [i]-x, [1]-844 p., 9 plates.

CONTENTS: [i-ii], Title page, verso "Printed by Walker & Greig."; [iii], Dedication.; [iv], Blank.; [v], Advertisement.; [vi], "Just published, ..."; [vii]-x, "Introduction."; [1]-832, Text.; [833]-844, "Appendix."

VERY SCARCE. A second issue of the 4th edition with a new title page and some alteration to the preliminaries.

REFERENCES: BL: [1037.i.17]. • Bolton, *Bibliography of Chemistry*, 1893: p. 79. • Cole, *Chemical Literature*, 1988: no. 1307. • NUC: [NU 0293087].

### French edition

**4720. French transl., 1822-4:** Dictionnaire | de Chimie, | sur le plan de celui de Nicholson; | presentant | les principes de cette science dans son etat actuel, | et ses applications aux phenomenes de la nature, | a la medecine, a la mine'ralogie, | a l'agriculture et aux manufactures: | Par Andrew Ure, | M.D., Professeur de restitution Andersonienne, | Membre de la Societe" Geologique, etc.; | Traduit de l'Anglais sur l'edition de 1821, | Par JP Riffault, | ex-Regisseur des Poudres et SalpStres, Membre de la Legion d'Honneur. | Tome Premier. (Second., Troisieme., Quatrie'me.) | [orn., hand pouring oil into a lamp 17x24 mm] | Paris, | Leblanc, Imprimeur-Libraire, | rue Furstemberg, N.° 8, Abbaye Saint-Germain. | [rule] | 1822. (1823., 1823., 1824.)

4 vols. [VOL 1: 1822] 8°: [4], [i]-xxviii, [1]-558 p. [VOL 2: 1823] 8°: [4], [1]-588 p. [VOL 3: 1823] 8°: [4], [1]-592 p. [VOL 4: 1824] 8°: [4], [1]-572, [2] p. 14 plates. Plates issued separately with title: Planches du Dictionnaire de chimie. 1824.

CONTENTS: [Vol 1] [2 pgs], Half title page, verso blank.; [2 pgs], Title page, verso blank.; [i]-xxviii, "Introduction."; [1]-558, Text.

[Vol 2] [2 pgs], Half title page, verso blank.; [2 pgs], Title page, verso blank.; [1]-588, Text.

[Vol 3] [2 pgs], Half title page, verso blank.; [2 pgs], Title page, verso blank.; [1]-592, Text.

[Vol 4] [2 pgs], Half title page, verso blank.; [2 pgs], Title page, verso blank.; [1]-536, Text.; 537-557, Appendix.; 558-572, "Supplément."; [1 pg], "Avis au relieur pour placer les figures ..."; [1 pg], Blank.

RARE. Translation by Jean Rene Denis Riffault des Hêtres [1754?-1826] of *A Dictionary of Chemistry* (1st ed., London, 1821). The translator has added some notes and a Supplement at the conclusion of volume four that contains articles not found in the English edition.

REFERENCES: BL: [8905.aaa.22.]. • Bolton, *Bibliography of Chemistry*, 1893: p. 73. • Cole, *Chemical Literature*, 1988: no. 1308. • Duveen, *Bibliotheca Alchemica et Chemica*, 1965: p. 594. • Neu, *Chemical, Medical & Pharmaceutical Books*, 1965: p. ?? . • NUC: [NU 0293089]. • Roller & Goodman, *Catalogue*, 1976: 2, 526.

### German edition

**4721. German transl., 1825:** Handwörterbuch der praktischen Chemie angewendet auf die anderen Zweige der Naturkunde wie auf Künste und Gewerbe, nach der neuesten Ausgabe des Originals, aus dem Englischen übersetzt nebst Zusätzen und Anmerkungen. Weimar, Verlag des Gr. H.S. priv. Landes-Industrie-Comptoirs, 1825.

8°: xiv, 1032, 8, 8, [2] p., illus.

RARE. Translation of the first edition of Ure's *A Dictionary of Chemistry* (London, 1823).

### Dictionary of Arts, Manufactures, and Mines

**4722. First edition, 1839:** A | Dictionary | of | Arts, Manufactures, | and | Mines: | containing | a clear exposition of thet principles | and practice. | By | Andrew Ure, M.D. | F.R.S. M.G.S. M.A.S. Lond.; M.

Acad. N.S. Philad.; S. Ph. Soc. N. Germ.; | Hanov.; Mulh. etc. etc. | [rule] | Illustrated with twelve hundred and forty | engravings on wood. | [rule] | London: | Printed for | Longman, Orme, Brown, Green & Longmans, | Paternoster-Row. | 1839.

8° in 4s: [i]-vii, [1], [1]-1334 p., illus. There are woodcuts of equipment, machines, etc. in the text. The numbering goes to 1241.

CONTENTS: [i-ii], Title page, verso "London: | Printed by A. Spottiswoode, | New-Street-Square."; [iii]-vii, "Preface."; [1 pg], announcement of a forthcoming books.; [1]-1334, Text.

VERY SCARCE. **REWORK COMMENTARY:** This is the first edition of Ure's work on commercial processes and related materials. The author draws on his long experience as a professor of practical science and as a consultant to manufacturers both in Great Britain and abroad to prepare a work useful to manufacturers, metallurgists, merchants, students and the general public. There were seven editions: 2ed 1840; 3rd 1843 and 1846; 4th 1853; 5th 1860; 6th 1867 and 1872; 7th 1876 and 1878. Supplementary volumes were issued in various years in eluding 1844, -78, -79 and -81.

REFERENCES: BL: [7954.cc.28.]. • Bolton, *Bibliography of Chemistry*, 1893: 80. • Cole, *Chemical Literature*, 1988: no. 1301. • Hoover Collection: no. 800. • NUC: [NU 0293033]. • Roller & Goodman, *Catalogue*, 1976: 2, 526.

**4723. 3rd edition, 1843:** A Dictionary of Arts, Manufactures, and Mines. Containing a clear exposition of their principles and practice. Third edition, corrected. London, Printed for Longman, Brown, 1843.

8°: vii, [1], 1334, [2, blank], 32 p., 1240 illus. (advertisements dated April 1844).

VERY SCARCE. the third, last and best edition written by Ure himself.

REFERENCES: *Kress Catalogue*: no. 33256.

**4724. 1844:** A Dictionary of Arts, Manufactures, and Mines ... New York, D. Appleton & Co., 1844.

2 vols. Supplement, 1864. Total in 3 vols: 2436pp & 1940 wood engravngs.

VERY SCARCE. In today's terminology, this is an encyc,not a dict,& all eds of the work,incl the supps,are org'd alphabetically. The early eds of the work,done entirely by Ure himself, came out in quick succession, in 1839, 1840,& 1843. The 1st 2 vols of the present set are the Amed of the 3rd Lond (Corrected) ed.(1843).After Ure's death, the Lond. ed was brought up to date in 3 vols.The 3rd vol of present set,the large Am. Suppl of 1864(almost 1100 pps & w 700 wood engrvs)was taken,not from a British suppl,of which no current ed existed, but from the latest (5th) Brit ed of the Dict itself, ed.by R.Hunt,& pub. in 1863. The specific virtue of the present set of 3 vols,thus,is that it combines Ure's early work in it's preferred ed(3rd Lond,Corr.)on the industrial & related processes of the 1st 3rd of the 19th Cent, w. a parallel work on those same & additional processes as they existed an epochal quarter century later; & because of the alphabetical plan of the vols, the processes of both periods are easily compared,their history made manifest. A fascinating & rewarding work,esp.in this combination. Vols rebnd in matching cloth, conservatively & attractively, brown w gold print, & double gilt rules. Bndngs About Fine. A handsome set.The 1845 vols w. foxing to varying degrees,most fairly pale, not affecting legibility. Supp has no foxing. All vols have a blind stamp from a 19th Cent.pub.library on the title page, w no other lib.marks, tho w. a check mark in red on verso of each title page.

**4725. 11th American edition, 1847:** A | Dictionary | of | Arts, Manufactures, | and | Mines; | containing | a clear exposition of their principles and practice | by | Andrew Ure, M.D.; | F.R.S. M.G.S. M.A.S. Lond.: M. Acad. N.S. Philad.; S. Ph. Soc. N. Germ. | Hanov.; Mulh. etc. etc. | Illustrated with nearly fifteen hundred engravings on wood | Eleventh American, from the last London Edition. | To which is appended, | a Supplement

| of recent improvements to the present time. | New York: | D. Appleton & Company, 200 Broadway. | Philadelphia: | George S. Appleton, 148 Chestnut St. | MDCCCXLVII.

[TITLE OF SUPPLMENT READS:]

Recent Improvements | in | Arts, Manufactures, | and | Mines: | being | a Supplement to his Dictionary | by | Andrew Ure, M.D., | F.R.S. M.G.S. M.A.S. Lond.; M. Acad. N.S. Philad.; S. Ph. Soc. N. Germ. | Hanov.; Mulh. etc., etc. | Illustrated with one hundred and ninety engravings. | New York: | D. Appleton & Company, 200 Broadway. | Philadelphia: | George S. Appleton. 148 Chestnut St. | MDCCCXLVII.

8°: [1]-1340 p., 1241 illus. 6 as '8', 41 as '4', 1112 as '112', 1287 as '287'. [Supplement] 8°: [3]-304 p., 190 illus.

CONTENTS: [1-2], Title page, verso blank.; [3]-6, "Preface."; [7]-1340, Text.

[Supplement] [3-4], Title page, verso blank.; [5]-10, "Preface."; [11]-287, "A Supplement, &c., &c."; [288]-304, "Appendix."

VERY SCARCE. **REWORK COMMENTARY:** The first American edition of the Dictionary of Arts, ... seems to be New York, 1842 (from the 1840 London edition). There were numerous other editions and reprints including 1843 (3rd), -44, -45 (from the London 1843), other "11th" edition reprints (?) -48,-50,-51. These and at least 13 other New York (or New York-Philadelphia) "editions" from 1852 to 1878 are listed by NUC which adds a Boston 4th ed. 1853. Supplements appeared from at least 1844 until 1881.

The Dictionary was, with each London edition, being constantly enlarged and corrected, with recent improvements and new processes being incorporated in the Supplements. Bolton (1899) 21 lists only the New York 1850 edition. Szabadvary.F. (1966) 235-236, relates Ure's method for preparing standardized ("normal") solutions of sulphuric acid and ammonia. The translator has confused the order for diluting the acid; dilute acid should be added to the distilled water. See the Supplement 1847 Alkalimetry pp 289-291, especially 291. Szabadvary states Ure's is the earliest reference he has found to "normal" solutions (no date given for the Supplement used).

REFERENCES: Cole, *Chemical Literature*, 1988: no. 1302. • NUC: [NU 0293044].

**4726. 1851:** A Dictionary of Arts, Manufactures & Mines...to Which is Appended a Supplement. New York, D. Appleton, 1851.

8°: 1340 p., plus 304 page supplement. VERY SCARCE.

**4727. 4th edition, 1853:** A Dictionary of Arts, Manufactures, and Mines; Containing a Clear Exposition of Their Principles and Practice. 4th ed., cor. and greatly enl. New York, 1853.

2 vols. [VOL 1] 8°: xiv, 1118 p. [VOL 2] 8°: [2], 998 p.

VERY SCARCE. Ure's compendious dictionary contains listings on substances such as arrow root, beer, bones, mordant, and pitch, as well as manufacturing processes such as button making, calico printing, dyeing, and metallurgy. A remarkable portrait of materials, arts and manufacturing processes in the middle of the nineteenth century. This is the first American edition.

**4728. Revised edition, 1854:** A Dictionary of Arts, Manufactures, and Mines. New York, Appleton, 1854.

2 vols. [VOL 1] 8°: xiv, 1118 p. [VOL 2] 8°: [2], 998 p.

VERY SCARCE. First published in 1839. Ure was a Scottish chemist and scientific writer. He developed a course of popular scientific lectures for working men, the first of its kind. This American edition is from the fourth English edition, the first to appear after the 1851 Great Exhibition, containing a great deal of new information.

**4729. 1858:** A Dictionary of Arts, Manufactures, and Mines; containing a Clear Exposition of Their Principles and Practice. New York, D. Appleton & Co., 1858.

2 vols., with nearly 1600 wood engravings in the text. VERY SCARCE.

## VALENTINI

**4730. 5th edition, 1860:** Ure's Dictionary | of | Arts, Manufactures, and Mines | containing | a clear exposition of their principles and practice | Edited by Robert Hunt, F.R.S. F.S.S. | Keeper of Mining Records | Formerly Professor of Physics, Government School of Mines, Ac. &c. | Assisted by numerous contributors eminent in science and familiar with manufactures | [rule] | Illustrated with nearly Two Thousand Engravings on Wood | [rule] | Fifth Edition, chiefly Rewritten and greatly Enlarged | In three volumes — Vol. I (II, III) | London | Longman, Green, Longman, and Roberts | 1860 | The right of translation is reserved. 3 vols. [VOL 1] 8°: [i]-x, [2], [1]-909, [1] p. [VOL 2] 8°: [2], [1]-740 p. [VOL 3] 8°: [2], [1]-832, [829]-[832], 833-1078 p.

CONTENTS: [Vol 1] [i-ii], Half title page, verso blank.; [iii-iv], Title page, verso blank.; [v]-viii, "Preface."; [ix]-x, "List of Contributors."; [1 pg], "Errata."; [1 pg], Blank.; [1]-910, Text.

[Vol 2] [2 pgs], Title page, verso blank.; [1]-740, Text.

[Vol 3] [2 pgs], Title page, verso blank.; [1]-1078, Text.

VERY SCARCE. Robert Hunt (1807-1887) edited this first of the posthumous editions of Ure's Dictionary of Arts, ... In the Preface Hunt states that so much new material has been added that it is a "new publication." The editor's aim was to provide a reliable work of reference giving exact details of manufacture and including enough science to make the "philosophy of manufacture at once intelligible." Handicrafts were omitted from this edition for the most part.

Bolton (1893) 80 Ferchl 252 under Hunt lists the 1860 edition and the 7th 1875. Partington III 722 n.11 mistakenly gives the editor as E. Hunt.

REFERENCES: BL: [07944.i.27.]. • Cole, *Chemical Literature*, 1988: no. 1303. • NUC: [NU 0293059].

**4731. 1866:** A Dictionary of Arts, Manufacturers, and Mines: Containing a Clear Exposition of Their Principles and Practice. New York, D. Appleton & Co., 1866.

3 vols. [VOL 1] 8°: 1118 p. [VOL 2] 8°: 998 p. [VOL 3] 8°: 1096 p. Illustrated with hundreds of cuts.

VERY SCARCE. "Reprinted entire from the last corrected and greatly enlarged English edition."

**4732. 6th edition, 1867:** Ure's Dictionary of Arts, Manufactures, and Mines, containing a clear exposition of their principles and practice. 6th edition, chiefly rewritten and greatly enlarged. London, Longmans, Green & Co., 1867.

3 vols. [VOL 1] 8°: xii, 980 p. [VOL 2] 8°: [3], 902 p. [VOL 3] 8°: [3], 1128 p., 1985 woodcut illustrations in text.

VERY SCARCE. Hunt, Robert, 1807-1887, editor.

**4733. 7th edition, 1878-81:** Ures dictionary of arts, manufactures, and mines containing a clear exposition of their principles and practice by Robert Hunt. Assisted by F. W. Rudler. Seventh edition. London, Longmans, Green, and Co.; New York, D. Appleton, 1878.

4 vols.

VERY SCARCE. Rudler, Frederick William, 1840-1915. Hunt, Robert, 1807-1887.

**URUSOV, Aleksandr Aleksandrovich.** (BORN: ; DIED: c1828) *Russian naturalist.*

**4734. — Russian, 1780** [First edition].

Опыт Естественной Хистории, заклющий первую часть оной, то есть ориктологию, подержащуй в себе описание Бсяких земель, мелов, глин, песков, камней, солей, сеп, смол, полуметаллов, металлов и прочаго. Сочинено к. А.У. М., Унив. Тип., ы Н. Новикова, 1780.

[TRANSLITERATED TITLE:]

Opyt Estestvennoi Historii, 1780.

8°: [12], 235, [1] p. VERY SCARCE.

REFERENCES: BL: [no copy listed]. • Sopikov, *Essay in Russian Bibliography*, 1904-8: no. 7820. • *Svodnyi Katalog Russkoi Knigi*: no. 7540.

**4735. 2nd edition, 1790:** Опыт Естественной Повиести, заключающий первую часть оной, то есть ориктологию, содержащую в себе описание всяких земель, камней, солей, горючих веществ, полуметаллов, металлов и прочиш тел в недрах земных овретающихся. Сочинено к. А.У. 2-изд. с поправками и добавлениями. М., тип. А. Решетникова, 1790.

[TRANSLITERATED TITLE:]

Opyt Estestvennoi Poviesti. n.p., 1790.

8°: 402, [2] p.

VERY SCARCE. Taken from Library of Congress on-line catalog 5/5/94.

REFERENCES: BL: [no copy listed]. • NUC. • Sopikov, *Essay in Russian Bibliography*, 1904-8: no. 7821. • *Svodnyi Katalog Russkoi Knigi*: no. 7541.

**VALENTINI, Michael Bernhard.** (BORN: Giessen, Germany, 26 November 1657; DIED: Giessen, Germany, 18 March 1729) *German physician.*

Valentini was educated in his home town, graduating from the University of Giessen in 1675. In 1680, through diligent work, he became a licenced physician. Afterward he traveled throughout Europe and England meeting many of the leading scientists of the time. He returned to Giessen in 1682 and opened a medical practice. In 1686, he accepted the added responsibility of an instructor in medicine at the University. Eventually this led to his appointment to a full professorship in 1697. Valentin was elected a member of the Leopoldin Academie, 1683, Berlinische Academie, 1704 and the Royal Society of London, 1717.

REFERENCES: ADB: **39**, 468. • Augusta, J. and Z. Burian, *The Age of Monsters. Prehistoric and Legendary. Translated by M. Schierl.* London, Paul Hamlyn, 1966. [1]-79, [48], 23 plates. • *Biographie Universelle*: **42**, 452-3. • DBA: I 1301, 1-25; II 1333, 332-333. • Ferguson, *Bibliotheca Chemica*, 1906: **2**, 493-5. • Hirsch, *Biographisches Lexikon*, 1884-8: **6**, 57. • Jöcher, *Gelehrten-Lexikon*, 1750-51: **4**, col. 1404. • Lambrecht & Quenstedt, *Catalogus*, 1938: 439. • Poggendorff: **2**, col. 1166. • Sarjeant, *Geologists*, 1980: **3**, 2314. • WBI. • Zedler, *Universal Lexicon*, 1732-50: **46**, cols. 275-8.

Exercitatio De Generatione Mineralium, Vegetabilium, & Animalium In Aere, Occasione Annonae Et Telae Coelitus Delapsarum Anno MDCLXXXVI. (Norimbergae, 1689).

See: **Hartmann, Philipp Jacob.**

**4736. Dissertation, 1702:** Dissert. Physico-Medica De Filtro Lapide Quam ... Sub Praesidio Michaelis Bernhardi Valentini ... Publicae Ventilationi Sistit Johann-Georg Freudenberg/ Argentinensis. In Auditorio Medico Horis Consuetis A. D. [ ] Septembr. MDCCII.. Gissae-Hassorum, Henningi Mülleri, 1702.

4°: [2], 22 p.

RARE. Dissertation, Johann Georg Freudenberg respondent.

REFERENCES: Gatterer, *Mineralogischen Literatur*, 1798-9: **2**, 26. • LKG: XVI 393.

**4737. — German, 1704-14** [First edition].

[Engraved title page, with the text contained within an elaborate border design showing items typically contained in a natural history collection of the time:] Valentini | Natur= | ünd | Materialien | Kammer | Aüch | Ost=Indianische | Send=Schreiben | ünd | Rapporten.



MUSEUM MUSEORUM, 1704

[PRINTED TITLE PAGE:]

Museum Museum | oder | Vollständige |  
 aller | Materialien und Specereyen | nebst  
 deren | Natürlichen Beschreibung/ Election,  
 Nutzen und Gebrauch/ | aus anderen | Material-  
 Kunst- und Naturalien- | Kammern/ Ost-  
 und West-Indischen Reisz- | Beschreibungen/  
 Curiosen Zeit- und Tag-Registern/ Natur- und  
 | Artzney-Wündigern/ wie auch selbst-eigenen  
 Erfahrung/ | Zum Vorschub | Der Studirenden  
 Tugend/ Materialisten/ | Apotheker und deren  
 Visitatoren/ Wie auch anderer | Künstler/ als  
 Jubelirer/ Mahler/ Fäber/ u.s.w. | also verfasst/  
 und | Mit etlich hundert sauberen Kupfferstücken  
 | Unter Augen gelegt | von | D. Michael Bernard  
 Valentini | [...4 lines of titles and memberships...] |  
 Franckfurt am Mäyn/ | In Verlegung Johann David  
 Zunneri | Im Jahr 1704.

5 parts. [Part 1] 2°: [24], 520 p., added engraved title, 6 plates (3 folding).; [Part 2] 2°: [20], 196 p., added engraved title, 36 plates (25 folding).; [Part 3] 2°: [8], 1-216, 209-228 (i.e., 236) p., 40 plates (5 folding). Pages 209-216 appear twice in the sequence.; [Part 4] 2°: [4], 76 p., 8 text illus., [4], 119 p., 9 plates (1 folding).; [Part 5] 2°: 108, [12] p.

VERY SCARCE. "The first volume deals with plants, animals, minerals and metals, their properties and commercial and medical uses. The second volume

covers stones, fossils, coins, tropical plants, shells, unicorns and monstrosities. It has an appendix, a catalog of all museums known to exist at the time, some 159. The illustrations include one of the first attempts at the reconstruction of a fossil skeleton, albeit of a unicorn. A separate appendix, Ost. Indianische Send-Schreiben, is a compilation from Rumph, Kaempfer, ten Rhyn and others on the rarities, mostly botanical, from the East Indies. The third volume is devoted to experiments in physics and natural philosophy, with apparatus illustrated. It concludes with a dissertation on the diving rod." [Ferguson (1906)].

Contains a critical account of the legends of unicorns.

REFERENCES: *Acta Eruditorum*: 1704, 363 [Note on scope of the work]. • BL. • Eales: 1259. • *Freilich Sale Catalog*: nos. 535-6. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 143. • Nissen (BBI): no. 2035. • Pritzel, *Thesaurus Literaturæ Botanicae*, 1871-3: no. 9663. • Sabin, *Dictionary*, 1868-1936: no. 98357.



MUSEUM MUSEORUM, 1714

4738. 2nd edition, 1714: [Engraved title page, with the text contained within an elaborate border design showing items typically contained in a natural history collection of the time:] Valentini | Natur= | und | Materialien | Kammer | Auch | Ost=Indianische | Send=Schreiben | und | Rap-  
 porten.

[PRINTED TITLE PAGE:]

Museum Museum, | Oder Vollständige | Schaü Bühne |  
 Aller | Materialien und Specereyen/ | Nebst deren | Natür-  
 lichen Beschreibung/Election, Nutzen und Gebrauch/ |  
 Aus anderen | Material=Kunst= und Naturalien=Kam= |  
 mern/ Ost= und West=Indischen Reiß=Beschreibungen/

| Curiosen Zeit= und Tag=Registern / Natur= und  
 Artzney= | Kündigen/ wie auch selbst=eigenen Er-  
 fahrung/ | Zum Vorschub | Der Studirenden Jugend/  
 Materialisten / Apothecker/ | und deren Visitatoren/ wie  
 auch anderer Künstler/ als Jubelirer/ | Mahler/ Färber/  
 u.s.w. also verfasst/ und | Mit etlich hundert/sauberen  
 Kupfferstücken | Unter Augen gelegt/ | Von | D. Michael  
 Bernard Valentini, | [...4 lines of titles and memberships...]  
 | Zweyte Edition. | [ornate rule] | Franckfurt am Mayn/  
 Verlegt von Johann David Zunners Sel. Erben/ und | Jo-  
 hann Adam Jungen. | [rule] | Im Jahr Christi M DCC  
 XIV.

[Part 5] Pp. [2 pages], Title page, verso blank.; [4 pages], Dedication, signed Michael Bernhard Valentin.; [2 pages], "Vorrede | An den hoch- und vielgeehrten Leser."; [Plates I-IX]; 1-102, Text.; 103-112, "Erster Anhang."; 113-216 & 209-228, "Zweyter Anhang."; [10 pages], "Index | Rerum Et Verborum."; [1 page], "Sphalmata.". [1 page], Blank.

Valentini began his book, *Museum Museorum*, by

A universal scientific work which includes botany, zoology, mineralogy, among other physical phenomena. The interspersed plates illustrate all manner of subjects in medicine, technology, plants, fish, reptiles, animals, petrifications, minerals, etc. Text explanations include descriptions of experiments with air, optics, the camera obscura, etc.

• BL. • Ferguson, *Bibliotheca Chemica*, 1906: 2, 493-5. • Hoover Collection: no. 803. • *Katalog Bergakademie Freiberg*, 1879: p. 677. • Nissen (BBI): no. 2035. • Nissen (ZBI): no. 4217. • Sabin, *Dictionary*, 1868-1936: no. 98357. • Wilson, *History of Mineral Collecting*, 1994: 43. • Wood, *Literature of Vertebrate Zoology*, 1931: no. 609.

**4739. Latin transl., 1716:** *Historia Simplicium Reformata*, sub Musei Museumum titulo antehâc in Vernaculâ edita ... à D. Joh. Conrado Beckero ... Latio restituta. Accedit

India Literata, E Lingua Belgica primum in Germanicam translata, nunc verò, ad desiderium Exterorum Latinitate donata, longe auctior reddita, novisque Figuris æneis illustrata à C. B. Valentini ... Offenbaci ad Moenum ... MDCCXXXII.

2°: [30], [1]-376, [12] p., [377]-664, [16] p., folding chart, 30 plates.

VERY SCARCE. Abbreviated Latin translation of the *Museum Museorum* by Johann Conrad Becker, and edited by Christoph Bernhard Valentini (the author's son).

REFERENCES: BL: [444.k.11.]. • *Journal des Scavans*: 1716, 350 [review].

**4740. Latin transl., 1723:** Michaelis Bernhardi | Valentini, | Archiatri Hassiaci & Prof. Medici Gissenii, | Historia | Simplicium | Reformata, | sub | Musei Museumum | titulo antehac in Vernaculâ edita, jam autem in gratiam | Exterorum, sub directione, emendatione & locupletatione | Autoris, | à | D. Joh. Conrado Beckero, | Medio Alsfeldensi, | Latio restituta. | Accedit | India Literata, | E Lingua Belgica primum in Germanicam translata, | nunc verò, | ad desiderium Exterorum Latinitate donata, | longe auctior reddita, novisque Figuris æneis illustrata | à | Christophoro Bernhardo | Valentini, | M.B. Filio. | [rule] | Veneunt posthac Offenbaci ad Moenum, | Apud Johannem Ludovicum König, Bibliopol. | M D C C X X X I I.

2°: [36], 664, [28] p., folding chart, 30 plates. The *India Literata* of the second part has its own title page dated 1716.

VERY SCARCE. This translation was previously issued with the *Aurifodina Medica* (Giessen & Frankfurt, 1723), but is here again a separate work.

REFERENCES: BL: [456.f.11.].

#### 4741. — Latin, 1707.

A. Ω | Michaelis Bernhardi | Valentini | Prodomus | Historiæ | Naturalis | Hassiæ, | Quem | Anno Academiæ Gissenæ Jubilæo | MDCCVII, | Sub Præsidio Autoris, | Publicæ Curiosorum Ventilationi | Sistebat | Joh. Nicolaus Müllerus, | Gissa-Hassvs, LL. Cult. | [ornate rule] | Giessae-Hassorum, Typis & impensis Henningi Mülleri.

4°: [8], 36 p.

RARE. A prodromous or introductory book describing the natural history of the region of Hessa in Germany. It was written to commemorate the jubilee year of the Science Academy at Giessen.

REFERENCES: BL: [117.n.10.]. • Hirsch, *Biographisches Lexikon*, 1884-8: 5, 693-5. • *Katalog Bergakademie Freiberg*, 1879: p. 677 [III. 2t.]. • LKG: XIV 122. • NLM 18th Century Books (Blake): p. ???? . • Pritzel, *Thesaurus Literaturæ Botanicae*, 1871-3: no. 9665.

#### 4742. — Latin, 1708.

Historia Literaria S.R.I. Academiæ Naturæ Curiosorum, complectens recensionem et contenta librorum, a Dnn. Præsilibus, Adjunctis et Collegis, loco pensi Academici, ad normam et formam in Legibus præscriptam, editorum, seorsim olim et per partes continuata, nunc vero auctior et emendatior conjunctim emissâ. Gissæ-Hassorum, 1708.

4°: A-T<sup>4</sup> a-c<sup>4</sup>; ??ℓ.; 152, 38 p.

VERY SCARCE. Valentini wrote this work for the Academiæ Naturæ Curiosorum of which he was a member. It consists of a collection of papers in abstract arranged under the three headings: mineral, vegetable,

and animal. Each section is preceded by an introduction authored by Valentini in which he provides a short review of the principal writers on the subject.

REFERENCES: BL: [272.e.36.]. • Ferguson, *Bibliotheca Chemica*, 1906: 2, 494-5 (note).

**VALMONT-BOMARE, Jacques Christoph.** (BORN: Rouen, France, 17 September 1731; DIED: Paris, France, 24 August 1807) *French mineralogist & naturalist*.

A brilliant student, Valmont was by his family wishes destined for a career in the legal profession; however, his interest in science was greater and led him to study pharmacy and chemistry at Rouen. After graduating in 1751, he moved to Paris. There, he convinced the government to grant him an official status for investigating the mineral resources of other countries. In this quasi-diplomatic capacity, he gained access to mines and chemical and metallurgical works throughout Europe. As a consequence, he also met many of the leading scientists of his time. In July 1756, Valmont introduced a series of public lectures on natural history subject that became highly successful, and lasted until 1788. During the French revolution, out of fear of being labeled a royal collaborator, he destroyed all the journals of his journeys, together with his correspondence with such luminaries as Linnaeus and Rousseau. In 1796, he accepted a position as professor of natural history at the École Centrale in the Rue Saint-Antoine which he remained in until 1806. When the Institute de France was established in 1795 he was named associate member in the mineralogy section.

REFERENCES: ABF: I 1010, 278-293. • *Biographie Universelle*: 42, 513-4. • DSB: 13, 565-6 [by J.G. Burke]. • Lambrecht & Quenstedt, *Catalogus*, 1938: 46. • *Le Moniteur Universel*: 23 September 1807. • *Nouvelle Biographie Générale* (Hoefer). • Poggendorff: 2, cols. 1169-70. • Sarjeant, *Geologists*, 1980: 3, 2316. • Valmont de Bomare, J.C., "Une autobiographie inédite de Valmont de Bomare," *Bull. Mus. Hist. Naturelle*, 12 (1906), 4-7. • WBI. • *World Who's Who in Science*: 1705.

#### 4743. — French, 1758 [Collection catalog].

Catalogue du cabinet d'histoire naturelle de M. Bomare de Valmont comprenant les minéraux, végétaux, animaux, & quelques productions, tant de la nature que de l'art. (-Regne minéral.). Paris, 1758.

8°: 120, 32 p. VERY SCARCE.

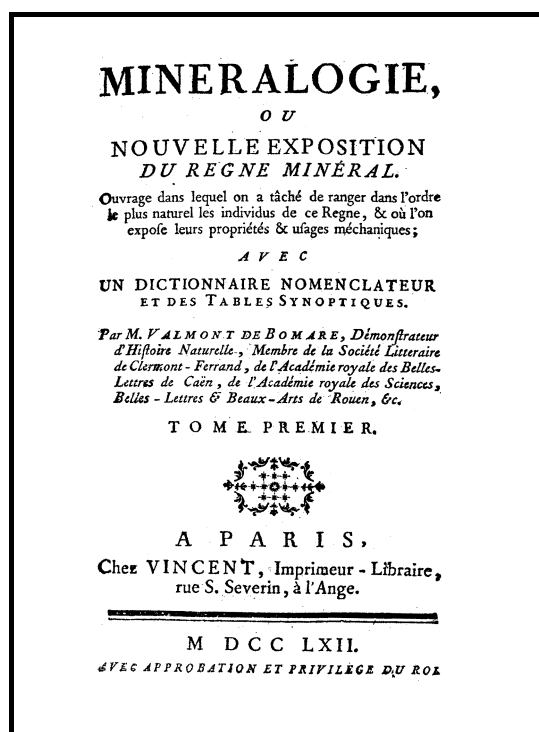
REFERENCES: BL. • BMC: 5, [no copy listed]. • CBN. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 271. • LKG: XII 53\*a. • NUC.

#### 4744. — French, 1762 [First edition].

Mineralogie, | ou | Nouvelle Exposition | Du Regne Minéral. | Ouvrage dans lequel on a tâché de ranger dans l'ordre | le plus naturel les individus de ce Regne, & où l'on | expose leurs propriétés & usages mécaniques; | Avec | Un Dictionnaire Nomenclateur | et des Tables Synoptiques. | Par M. Valmont de Bomare, Démonstrateur | [...4 lines of titles and memberships...] | Tome [-Second] Premier. | [ornament] | A Paris, | Chez Vincent, Imprimeur-Libraire, | rue S. Severin, à l'Ange. | [double rule] | M D C C L X I I. | Avec Approbation Et Privilege Du Roi.

2 vols. [VOL 1] 8°: π<sup>1</sup> a<sup>8</sup> A-Z<sup>8</sup>; 193ℓ.; [2], [i]-xiv,





MINÉRALOGIE, 1762

[2], [1]-365, [3] p., 6 folding tables (at pages 9, 42, 45, 91, 105 & 287); [VOL 2] 8°:  $\pi^1$  A-Z<sup>8</sup> 2A<sup>7</sup>; 192 $\ell$ .; [2], [1]-374, [2], 1-6 p., 5 folding tables (at pages 1, 21, 93, 247 & 293). Mispagination: page 304 for 330. PAGE SIZE: 200 x 120 mm.

CONTENTS: [Vol 1] [2 pgs], Title page, verso blank.; [i]-iii, Dedication to the Count De Saint-Florentin.; [iv]-xiv, "Preface."; [1 pg], "Table | De | La Nouvelle Exposition | Du Règne Minéral."; [1 pg], Blank.; [1]-352, Text.; [353]-365, "Table | Alphabétique | de Matières contenues dans la première Partie."; [1 pg], Blank.; [1 pg], "Errata."; [1 pg], Blank.

[Vol 2] [2 pgs], Title page, verso blank.; 1-304 (i.e., 330), Text.; 331-359, "Lexicon | Alphabétique | De Minéralogie | ..."; 360, Blank.; [361]-374, "Table | Alphabétique | Des | Matières contenues dans la seconde Partie."; [1 pg], "Errata."; [1 pg], "Approbation."; 1-6, Publisher's list.

SCARCE. Valmont de Bomare intended this work to be a course of mineralogical study so that one could become familiar with the diverse substances extracted from the bowels of the earth. He begins his *Minéralogie* with definitions so as to delimit the subject. Natural history is the study that enumerates and describes the different bodies of the mineral, plant and animal kingdoms, and the naturalists task was to examine, collect, and classify all the bodies that exist in nature. The subject of mineralogy was that section of natural history that provides the descriptions of the waters, fossils, minerals, semi-metals, metals, and all other substances found at the surface or within the interior of the earth. Valmont called the enumeration

and description of minerals the systematic part of his treatise. In addition, he inserted notes to clarify obscure points, which were catch-alls for a variety of miscellaneous information.

On the whole, Valmont de Bomare's originality lay in his synthesizing the work of other authors into a convenient form. He distributed all mineral bodies known to him into 10 classes with 61 genera and ultimately 352 species. His classification system was an adaptation of WALLERIUS' theories, with the emphasis placed on the physical characters as the principle method for division. But throughout, he cites Pliny, Agricola, Scheuchzer, Woodward, Discorides, as well as contemporaries like Wallerius, Linnaeus, Woltersdorff and Henckel. Valmont also uses resistance to the action of fire and water as a distinguishing characteristic for a species. The greatest obscure he had in compiling his *Minéralogie* was the chaotic state of the nomenclature. As a result, he includes at the end an alphabetical lexicon of mineralogy that defines terms used in "natural history, physics and chemistry ... which appear to be less generally understood."<sup>[1]</sup>

NOTES: [1] *Minéralogie*, p. 331.

REFERENCES: Beekman, *Systematische Mineralogie*, 1906: 89-90. • Berlinische Sammlungen: 3, 313. • BL. • CBN. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 32. • Hoover Collection: no. 809. • Katalog Bergakademie Freiberg, 1879: p. 678 [VI. 215 a.b.]. • NUC. • Roller & Goodman, *Catalogue*, 1976: 2, 529. • St. Clair, *Classification of Minerals*, 1966: 82-8. • Wallerius, *Brevis Introductio*, 1779: 106.

4745. 2nd edition, 1774: *Minéralogie*, | ou | Nouvelle Exposition | Du Règne Minéral, | Ouvrage dans lequel on a tâché de Ranger dans l'ordre | le plus naturel les Substances de ce Règne, & où l'on | expose leurs propriétés & usages mécaniques, &c; | Avec un Lexicon ou Vocabulaire, des Tables | synoptiques, & un Dictionnaire minéralogico- | géographique. | Par M. Valmont de Bomare, Démonstrateur d'His- | [...3 lines of titles and memberships...] | Seconde Édition. | [rule] | Tome Premier. [-Second.] | [rule] | [ornament] | A Paris, | Chez Vincent, Imprimeur-Libraire, rue des | Mathurins, hôtel de Clugny. | [double rule] | M DCC LXXIV.

2 vols. [VOL 1] 8°: lxii, [2], 590, [2] p., 7 folding tables; [VOL 2] 8°: [2], 640, [4] p., 6 folding tables. VERY SCARCE.

REFERENCES: BL. • CBN. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 32. • LKG: XII 53b. • NUC. • Roller & Goodman, *Catalogue*, 1976: 2, 529.

4746. German edition, 1769: Herrn Valmont von Bomare | Mineralogie, | oder | Neue Erklärung | des | Mineral=Reichs, | darinnen | jeder zu diesem Reich gehörige Körper in die natürlichste | Ordnung gestellt, auch desselben Eigenschaften und Gebrauch | angezeigt werden, | mit Tabellen, | aus dem Französischen übersezt. | Erster [-Zweite] Theil. | [ornament] | [rule] | Mit Chur=Fürstl. Sächsischen gnädigsten Privilegio. | [rule] | Dresden, 1769. | In der Waltherischen Hof=Buchhandlung.

2 vols. [VOL 1] 8°: )(8 )(1 A-Y<sup>8</sup> Z<sup>5</sup>; 191 $\ell$ .; [18], [1]-352, [12] p.; [VOL 2] 8°:  $\pi^1$  A-U<sup>8</sup> X<sup>7</sup> Y<sup>3</sup>; 171 $\ell$ .; [2], [1]-226 (i.e., 326), [14] p., 14 folding tables, lettered A-N. Page 326 misnumbered 226. PAGE SIZE: 200 x 120 mm.

CONTENTS: [Vol 1] [2 pgs], Title page, verso blank.; [4 pgs], Dedication to Ignatz Edlen von Born.; [2 pgs], "Vorbericht | des Uebersetzers."; [8 pgs], "Vorrede."; [1 pg], "Haupt=Tabelle | der | Neuen Erklärung des Mineral= | Reichs."; [1 pg], Blank.; [1]-352, Text.; [11 pgs], "Register | des ersten Theils."; [1 pg], Blank.

[Vol 2] [2 pgs], Title page, verso blank.; [1]-226 (i.e.,

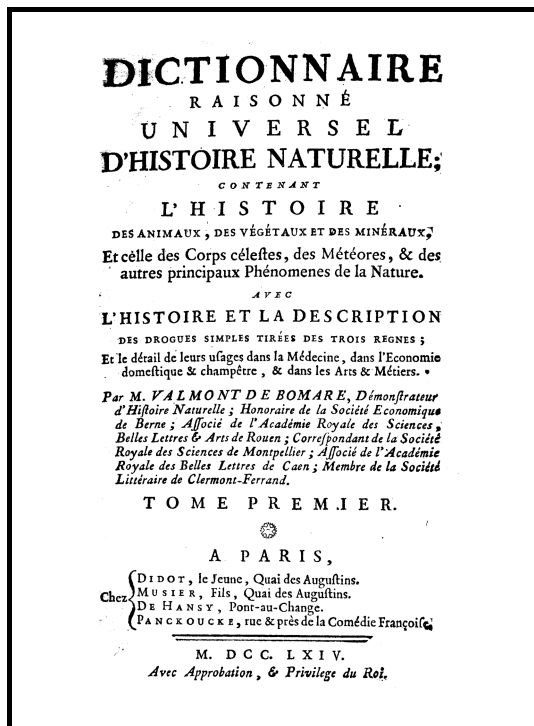
326), Text.; [13 pgs], "Register | des zweyten Theils."; [1 pg], Blank.

VERY SCARCE. Translation of *Minéralogie, ou Nouvelle Exposition du Regne Minéral* (1st ed., Paris, 1762).

REFERENCES: *Berlinische Sammlungen*: 3, 653.. • BL. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 32. • *Göttingische gelehrte Anzeigen*: 1140-43 & 1184. • GV (1700-1910). • *Jenaische gelehrte Zeitungen*: 69, 650-3. • *Katalog Bergakademie Freiberg*, 1879: p. 678 [VI. 220.]. • LKG: XII 53b. • NUC.

### Dictionnaire Raisonné

The compilers of dictionaries had two banks to rob: Linnaeus' *Systema Naturæ* and Buffon's *Histoire Naturelle*. They would abstract and arrange the contents alphabetically. As a result the reader got Linnaeus' exactness and Buffon's fine writing in both science and literature. Creation of such dictionaries reached its zenith with the extravagant works of Houttuyn's *Natuurkyke Historie of Uitvoerige Beschryving der Dieren, Planten en Mineralen*, published in thirty-seven volumes (1761-85), and Valmont de Bomare's *Dictionnaire Raisonné Universel d'Histoire Naturelle*, that appeared in at least five editions, and Danish, Dutch, Italian and Russian translations. There was also Martini's *Allgemeine Geschichte der Natur in alphabetischer Ordnung* (1774), which ambitiously built on Bomare's *Dictionnaire* and invited its readers to participate in making a new edition by filling out pages left blank for the purpose. The new edition would not be complete, extending through the letter "C" in 11 volumes. In natural history, Martini said, "complete is a harmonious sound without meaning." There were still more dictionaries: the anonymous *Manuel du Naturaliste* (Paris, 1770), W.F. Martyn's *A New Dictionary of Natural History*, Philip Miller's very handsome *The Gardener's and Botanist's Dictionary* (1731, 8th edition 1768), and Lamarck's botanical chunk of the *Encyclopédie Méthodique*. A somewhat earlier, similar trend has been noted in geography.



DICIONNAIRE RAISONNE, 1764

4747. — French, 1764 [First edition].

Dictionnaire | Raisonné | Universel | D'Histoire Naturelle; | Contenant | L'Histoire | Des Animaux, Des Végétaux Et Des Minéraux | Et celle des Corps celestes, des Météores, & des | autres principaux Phénomènes de la Nature. | Avec | L'Histoire Et La Description | Des Drogue's Sulaples Tirees Des Trois Regnes; | Et le détail de leurs usages dans la Médecine, des Anatnomie, | [...one line unreadable...] | Par M. Valmont De Bomare, Démonstrateur | [...6 lines of title and memberships...] | Tome Premier. | [ornament] | A Paris, | Chez { [...4 lines of publishers...] | [double rule] | M. DCC. LXIV. | Avec Approbation, & Privilège du Roi.

5 vols. [VOL 1] 8°: [i]-xxiv, [1]-644 p. (A-C). [VOL 2] 8°: [4], [1]-659, [1] p. (C-H). [VOL 3] 8°: [4], [1]-606 p. (H-O). [VOL 4] 8°: [4], [1]-659, [1] p. (O-R). [VOL 5] 8°: [4], [1]-711, [5] p. (R-Z). PAGE SIZE: 168 x 108 mm.

CONTENTS: [Vol 1] [i-ii], Title page, verso blank; [iii]-iv, Dedication to the Marquis de Marigny; v-xviii, "Avertissement."; xix-xiv, "Catalogue | Alphabetique." [=bibliography of works cited]; [1]-644, Text.

[Vol 2] [2 pgs], Half title page, "Dictionnaire | D'Histoire Naturelle. | Tome Second.", verso blank; [2 pgs], Title page, verso blank; [1]-659, Text.; [1 pg], Blank.

[Vol 3] [2 pgs], Half title page, "Dictionnaire | D'Histoire Naturelle. | Tome Troisième.", verso blank; [2 pgs], Title page, verso blank; [1]-606, Text.

[Vol 4] [2 pgs], Half title page, "Dictionnaire | D'Histoire Naturelle. | Tome Quatrième.", verso blank; [2 pgs], Title page, verso blank; [1]-659, Text.; [1 pg], Blank.

[Vol 5] [2 pgs], Half title page, "Dictionnaire | D'Histoire Naturelle. | Tome Cinquième.", verso blank; [2 pgs], Title page, verso blank; [1]-711, Text.; [5 pgs], "Approbation" (dated 17 May 1763), "Privilège Du Roi" and "Additions Et Corrections."

VERY SCARCE. This is the first appearance of Valmont's general dictionary of natural history that covers all aspects of the three kingdoms of animals, plants and minerals. It became a very popular work, updated and increased in its scope through other French editions until 1800, as well as translations into other languages such as Danish, Dutch, Italian and Russian. It is the most important work of Valmont and the book for which he is best remembered, because it contributed greatly to the wide spread study of natural history during the later half of the 18th century. Valmont based his text upon his own wide range of reading that is displayed by the inclusion of a long bibliography in the introductory material of the first volume. However, Valmont does not contribute anything truly original but instead combines and synthesizes the ideas of many other naturalists into a highly readable text that was so successful in its presentation that it was used as a model for similar dictionaries into the 19th century.

REFERENCES: BL. • BMC: 5, 2192 [wanting]. • CBN. • DSB: 13, 565-6. • *Katalog Bergakademie Freiberg*, 1879: p. 678 [XV. 151 a-e.]. • NUC. • Stafleu & Cowan, *Taxonomic Literature*, 1976-88: ??, ??.

4748. 2nd edition, issue A?, 1768/9: Dictionnaire | Raisonné, |

## VALMONT-BOMARE

Universel | D'Histoire Naturelle, | Contenant | L'Histoire | des Animaux, des Végétaux et des Minéraux | Et celle des Corps célestes, des Météores, & des | autres principaux Phénomènes de la Nature; | Avec | L'Histoire Et La Description | Des Drogues simples Tirées des trois Regnes; | [...4 lines of text...] | Par M. Valmont De Bomare, Démonstrateur | [...6 lines of titles and memberships...] | Nouvelle Édition, Revue Et Augmentée. | Tome Premier. | [ornament] | A Paris, | Chez Lacombe, Libraire, Quai de Consi. | [ornate rule] | M. DCC. LXVIII. | Avec Approbation & Privilège du Roi.

6 vols. and supplement. [VOL 1] 8°: ?? p. [VOL 2] 8°: 766 p. [VOL 3] 8°: 712 p. [VOL 4] 8°: ?? p. [VOL 5] 8°: 674 p. [VOL 6] 8°: 723 p. [Supplement] 8°: PAGE SIZE: 175 x 100 mm. VERY SCARCE.

REFERENCES: BL. • CBN. • NUC.

**4749. 2nd edition, issue B?, 1768-70:** Dictionnaire raisonné universel d'histoire naturelle par M. Valmont de Bomare. Éd. augm. par l'auteur; avec plusieurs articles nouveaux & un grand nombre d'additions sur l'histoire naturelle, la médecine, l'économie domestique & champêtre, les arts, & les métiers fournis par Mrs. Haller, Deleuze, Bourgeois. Yverdon, 1768-1770.

6 vols. [VOL 1] 8°: [VOL 2] 8°: [VOL 3] 8°: [VOL 4] 8°: [VOL 5] 8°: [VOL 6] 8°: 570 p.

VERY SCARCE. Natural history – Dictionaries – French.

**Other issue:** Perhaps issued in an 8 volume 4° size set.

REFERENCES: BL. • CBN. • NUC.

**4750. 3rd edition, 1775:** Dictionnaire | Raisonné | Universel | D'Histoire Naturelle; | Contenant | L'Histoire Des Animaux, | Des Végétaux Et Des Minéraux, | Et celle des Corps célestes, des Météores, & des autres | principaux Phénomènes de la Nature; | Avec | L'Histoire Et La Description | Des Drogues Simples Tirées Des Trois Regnes, | Et le détail de leurs usages dans la Médecine, dans l'Économie domestique | & champêtre, & dans les Arts & Métiers: | Plus, une Table concordance des Noms Latins, & le renvoi aux objets | mentionnés dans cet Ouvrage. | Par M. Valmont de Bomare, Démonstrateur d'Histoire Naturelle avoné du | [...7 lines of titles and memberships...] | Nouvelle Édition, revue & considérablement augmentée par l'Auteur. | Tome Premier. | [ornament] | A Paris, | Chez Brunet, Libraire, rue des Écrivains, vis-à-vis le Cloître Saint Jacques | de la Boucherie. | [double rule] | M. DCC. LXXV. | Avec Approbation, et Privilège du Roi.

9 vols. [VOL 1] 8°: (A-B). [VOL 2] 8°: (B-C). [VOL 3] 8°: (C-F). [VOL 4] 8°: (G-I). [VOL 5] 8°: (K-M). [VOL 6] 8°: (N-P). [VOL 7] 8°: 691 p. (Q-R). [VOL 8] 8°: (S-T). [VOL 9] 8°: (T-Z). VERY SCARCE.

**Reissue, 1776:** A Lyon, Chez Bruyset. 1776. 9 vols.

REFERENCES: BL. • CBN. • NUC. • Roller & Goodman, *Catalogue*, 1976: 2, 529.

**4751. 4th edition, issue A?, 1780-1:** Dictionnaire | Raisonné Universel | D'Histoire Naturelle, | Contenant | L'Histoire | Des Animaux, Des Végétaux & Des Minéraux. | Celle des Corps célestes, des Météores & des autres | principaux Phénomènes de la Nature; | Avec | L'Histoire Et La Description | Des Drogues Simples Tirées Des Trois Regnes, | Le détail de leurs usages dans la Médecine, dans l'Économie | domestique & champêtre, & dans les Arts & Métiers, | Avec une Table concordante des Noms Latins. | Par M. Valmont De Bomare, Démonstrateur d'Histoire | [...9 lines of titles and memberships...] | Quatrième Édition, revue & considérablement augmentée. | [rule] | Tome Premier. | [rule] | [ornament] | En Suisse, | [double rule] | M. DCC. LXXX.

12 vols. [VOL 1] 4°: 580 p. (A-Bau). [VOL 2] 4°: [VOL 3] 4°: 462 p. (Chao-Czi). [VOL 4] 4°: [VOL 5] 4°: [VOL 6] 4°: [VOL 7] 4°: 527 p. (Mea-Opi). [VOL 8] 4°: 543 p. (Opo-Pla). [VOL 9] 4°: [VOL 10] 4°: [VOL 11] 4°: 521 p.

(Tab-Ven). [VOL 12] 4°: PAGE SIZE: 110 x 170 mm. VERY SCARCE.

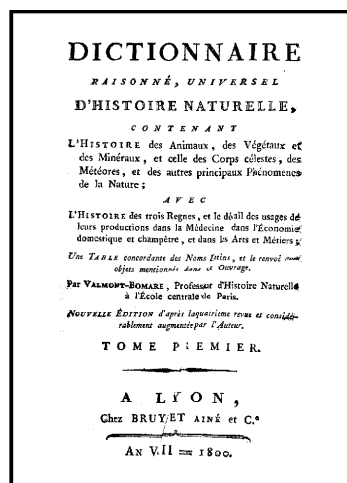
REFERENCES: BL. • CBN. • LKG: VIII 4. • NUC.

**4752. 4th edition, issue B, 1791:** Dictionnaire raisonne universel d'histoire naturelle; contenant l'histoire des animaux, des vegetaux et des mineraux et celle des corps celestes, de meteores et des autres principaux phenomenes de la Nature, avec l'histoire et la description des drogues's ulaples tirees de trois regnes, et le detail de leurs usages dans la medecine, dans l'économie domestique & champêtre, & dans les arts & métiers, et une Table concordante des Noms Latins ... Quatrième édition, revue & considérablement augmentée par l'Auteur. Lyon, Chez Bruyset Frres, 1791.

8 vols. [VOL 1] 4°: [VOL 2] 4°: [VOL 3] 4°: [VOL 4] 4°: [VOL 5] 4°: [VOL 6] 4°: [VOL 7] 4°: [VOL 8] 4°:

VERY SCARCE. Beautiful frontispice drawn by Sap engraved by C Boily. This is the most complete edition and that was updated only slightly in the edition of 1800.

REFERENCES: BL. • CBN. • NUC. • Roller & Goodman, *Catalogue*, 1976: 2, 529.



DICTIONNAIRE, 1800

**4753. 5th edition, 1800:** Dictionnaire | Raisonné Universel | D'Histoire Naturelle, | Contenant | L'Histoire Des Animaux, Des Végétaux et | Des Minéraux, et celle des Corps célestes, des | Météores & des autres principaux Phénomènes | de la Nature; | Avec | L'Histoire dest trois Regnes, et le détail des usages de | leurs productions dans le Médecine, dans l'Économie | domestique & champêtre, et dans les Arts & Métiers, | [...2 lines...] | Par Valmont-Bomare, Professeur d'Histoire Naturelle | à l'École centrale de Paris. | Nouvelle Édition d'apels le quatrieme revue et considérablement augmentée par l'Auteur. | Tome Premier. | [ornate rule] | A Lyon, | Chez Bruyset ainé et C.<sup>t</sup> | [ornate rule] | An VIII = 1800.

15 vols. [VOL 1] 4°: [4], [i]-xxxvii, [1]-544 p. (A-Azu). [VOL 2] 4°: [4], [1]-612 p. (B-Cao). [VOL 3] 4°: [4], [1]-570 p. (Cap-Col). [VOL 4] 4°: [4], [1]-542 p. (Com-Dyt). [VOL 5] 4°: [4], [1]-610 p. (E-Fut). [VOL 6] 4°: [4], [1]-570 p. (G-His). [VOL 7] 4°: [4], [1]-563, [1] p. (Hoa-Lil). [VOL 8] 4°: [4], [1]-558 p. (Lim-Mor). [VOL 9] 4°: [4], [1]-664 p. (Mos-Oye). [VOL 10] 4°: [4], [1]-564 p. (P-Piv). [VOL 11] 4°: [4], [1]-512 p. (Pla-Pyr). [VOL 12] 4°: [4], [1]-580 p. (Q-Sat). [VOL 13] 4°: [4], [1]-560 p. (Sav-Teg). [VOL 14] 4°: [4], [1]-636 p. (Tei-Veu). [VOL 15] 4°: [4], [1]-208, [1]-446 p. (Via-Zyz and index). PAGE SIZE: 200 x 130 mm.

CONTENTS: [Vol 1] [2 pgs], Half title page, verso blank; [2 pgs], Title page, verso blank; [i]-iv, "Avis Des Éditeurs."; [v]-xxxii, "Préface."; [1]-544, Text.

[Vol 2] [2 pgs], Half title page, verso blank.; [2 pgs], Title page, verso blank.; [1]-612, Text.  
 [Vol 3] [2 pgs], Half title page, verso blank.; [2 pgs], Title page, verso blank.; [1]-570, Text.  
 [Vol 4] [2 pgs], Half title page, verso blank.; [2 pgs], Title page, verso blank.; [1]-542, Text.  
 [Vol 5] [2 pgs], Half title page, verso blank.; [2 pgs], Title page, verso blank.; [1]-610, Text.  
 [Vol 6] [2 pgs], Half title page, verso blank.; [2 pgs], Title page, verso blank.; [1]-570, Text.  
 [Vol 7] [2 pgs], Half title page, verso blank.; [2 pgs], Title page, verso blank.; [1]-563, Text.; [1 pg], Blank.  
 [Vol 8] [2 pgs], Half title page, verso blank.; [2 pgs], Title page, verso blank.; [1]-558, Text.  
 [Vol 9] [2 pgs], Half title page, verso blank.; [2 pgs], Title page, verso blank.; [1]-664, Text.  
 [Vol 10] [2 pgs], Half title page, verso blank.; [2 pgs], Title page, verso blank.; [1]-564, Text.  
 [Vol 11] [2 pgs], Half title page, verso blank.; [2 pgs], Title page, verso blank.; [1]-512, Text.  
 [Vol 12] [2 pgs], Half title page, verso blank.; [2 pgs], Title page, verso blank.; [1]-580, Text.  
 [Vol 13] [2 pgs], Half title page, verso blank.; [2 pgs], Title page, verso blank.; [1]-560, Text.  
 [Vol 14] [2 pgs], Half title page, verso blank.; [2 pgs], Title page, verso blank.; [1]-636, Text.  
 [Vol 15] [2 pgs], Half title page, verso blank.; [2 pgs], Title page, verso blank.; [1]-208, Text.; [1]-432, "Table Latine, | Concordante Et Alphabétique | Des Noms et des Mots dont il est parlé dans | ce Dictionnaire."; 434-444, Catalog of the principal authors.; 445-446, "Extrait Des Registres."

VERY SCARCE. history of the animals, the plants and minerals, and that of the celestial bodies, the meteors, and other principal phenomena of nature, with the history of the three reigns, and the detail of the uses of their productions in medicine, the domestic and pastoral economy, and in Arts and Trades - a concordant table of the Latin names, and the reference with the objects mentioned in this work - news edition according to the fourth review and considerably increased by the author.

REFERENCES: BL. • CBN. • NUC.

**4754. Danish transl., 1767-70:** Den Almindelige Naturhistorie i Form af & Dictionaire ved Valmont de Bomare, oversat, forøget og forbedret af H. von Aphelsen, oder allgemeine Naturhistorie, in Gestalt eines Wörterbuchs, vom Hrn. Bomare, übersetzt, vermehrt und verbessert vom Hrn. von Aphelen. Kopenhagen, 1767-70.

7 vols. [VOL 1] 4°: [VOL 2] 4°: [VOL 3] 4°: [VOL 4] 4°: [VOL 5] 4°: [VOL 6] 4°: [VOL 7] 4°:

VERY SCARCE. Translation by H. von Aphelsen of *Dictionaire raisonne universel d'histoire naturelle* (1st edition, Paris, 1765).

REFERENCES: BL. • CBN. • LKG: VIII 4. • NUC.

**4755. Abridged transl., 1771-2:** Chymisk dictionnaire indeholdende denne videnskabs theorie og praxin, dens anvendelse paa physikken, naturhistorien, lægekunsten og den dyriske forfatning, med omstaendig forklaring over de chymiske lægemiddeleers kraft og virknings maade : samt de fornemste grundregler til de kunster, fabriker og haand-verker, som haeenge af chymien, med tilføjede anmerkninger af der franske oversat af H. von Aphelen. Kiøbenhavn, Trykt hos T.L. Borups efterleverske ..., 1771-1772.

3 vols. [VOL 1] [32] (last 2 p. blank), 622 p. [VOL 2] 591 p. [VOL 3] 674, [12] p. Vol. 3 has imprint: Kiøbenhavn, Trykt hos Johan Rudolph Thiele, 1772. Includes bibliographical references. Head- and tail-pieces; initials.

VERY SCARCE. Aphelen, Hans von, 1719-1779. Chemistry - Dictionaries - Early works to 1800.

This dictionary of chemistry and some mineralogy was extracted from the comprehensive dictionary of Valmont.

**4756. Dutch transl., 1767-70:** Algemeen en beredenerent woordenboek der natuurlyke historie behelzende de historie der dieren, planten en mineralen en die der hemelsche lichamen ... benevens de historie en beschryving der enkele drogeryen ... Te Dordrecht, by Abraham Blussé, (Rotterdam, ter Drukkerye van Stefanus Mostert en Zoonen), 1767 [-1770].

3 vols. [VOL 1] 4°: xx, 688 p., frontispiece. [VOL 2] 4°: viii, 997, [3] p. [VOL 3] 4°: iv, 574, [2] p.

RARE. Contains also.... de Historie en Beschryving der enkele Drogeryen, welke de drie Ryken opleveren; hun gebruik in de geneeskunst, in het gemeene leven, landbouw, konsten en handwerken.... uit het Fransch van den Heere Valmont de Bomare ..... door Charles Papillon. see martinet. serr. 1120

hoffmann 116 " Used for the pharmacy book : Sin tei so ho Holan yakkei. pub lished by Utagava Sinsei. in 1828." A general encyclopedia of biology, pharmacy, medicine and mineralogy orig. published by Valmont de Bomare in French. This is the 1st and only Dutch edition. DSB, p. 56

**4757. Italian transl., 1746-71:** Dizionario ragionato universale d'istoria naturale contenente la storia degli animali, de'vegetabili, e de'minerali ... Con la storia, e la descrizione delle droghe semplici tratte dai tre regni ... Del signor di Valmont di Bomare ... Traduzione dal francese in lingua toscana. Venezia, Benedetto Milocco, 1746-71.

12 vols. [VOL 1] 4°: [VOL 2] 4°: [VOL 3] 4°: [VOL 4] 4°: [VOL 5] 4°: [VOL 6] 4°: [VOL 7] 4°: [VOL 8] 4°: [VOL 9] 4°: [VOL 10] 4°: [VOL 11] 4°: [VOL 12] 4°:

VERY SCARCE. Milocco, Benedetto. (1746)

REFERENCES: Olschki, *Choix de Livres*, 1907-66: no. 9677.

**4758. Russian transl., 1787:** Физиологии?а? или Естествознаи?а? исторії?а? о челови?е?ки?е? касател'но ego zachatii?а?, rozhdenii?а?, prirody, stroenii?а? ti?e?la, razlichnykh vozrastov, di?e?i?a?nii zhizni, razlichii v chelovi?e?cheskom rodi?e? primi?e?chaemykh, boli?e?znei, starosti i smerti : dli?a? pol'zy Rossiiskago i?u?noshestva / trudami i izhdiveniem Nestora Maksimovicha-Ambodika Medt?s?ina Doktora i Professora. Grad Sv. Petra : Pri Tipografii Morskago Shli?a?khetnago Kadetskago Korpusa, 1787.

clii p.

VERY RARE. Translated by Maksimovich-Ambodik, Nestor, 1744-1812.

This is a highly abridged version of the *Dictionnaire*, being only a sampling of selections.

REFERENCES: *Svodnyi Katalog Russkoï Knigi*: no. 831.

**4759. — French, 1773** [First edition?].

*Dictionnaire raisonne universel de matiere medicale concernant les végétaux, les animaux & les minéraux qui sont d'usage en médecine; leurs description.* Paris, Franç. Didot le jeune, 1773.

4 vol. in-8, IV-718-736-672-742 pp., demi-reliure cuir d'époque. Reliure très usagée.

VERY SCARCE. Apparently this is an abridged version of the author's more famous *Dictionnaire Naturel Histoire*. Based on the title, this work is aimed at material required by the medical profession.

**4760. — French, 1759.**

*Prospectus d'un cours sur l'histoire naturelle des minéraux, végétaux et animaux.* Paris, 1759.

8°: VERY SCARCE.

REFERENCES: LKG: XII 53\*.

**VAN BERKHEY, Johannes le Francq.**

See: Francq Van Berkhey, Johannes Le.

## VARGAS BEDEMAR

**VAN HORN, Frank Robertson.** (BORN: 1872; DIED: ?) *American mineralogist & geologist.*

REFERENCES: ABA: I 1651,296-297; II 639,213-214. • *American Men of Science*. 5th ed., New York, 1933. • WBI. • *Who's Who in America, 1899-1909*. • *Who's Who in Engineering*.

### 4761. — English, 1903.

Lecture Notes on general and special Mineralogy. Cleaveland, Published by the Author, 1903.

8°: vii, 683 p. Printed of recto side of paper only. PAGE SIZE: 205 x 133 mm. VERY SCARCE.

REFERENCES: NUC. • *USGS Library Catalog*.

## VANBERCHEM-BERTHOUT, Johann Paul.

### 4762. — French, 1787.

Excursion dans les miner du Haut Faucigny et description de deux nouvelles Routes sur le Buet et le Breven avec une notice sur le jardin. Lausanne, 1787.

8°: VERY SCARCE.

REFERENCES: LKG: XIV 673.

### 4763. — French, 1790.

Itineraire de la vallon de Chamouni et d'une partie de Bat-Vallais et des montagnes avoisinantes a Lausanne. Lausanne, 1790.

8°: VERY SCARCE.

REFERENCES: LKG: XIV 673a\*.

### 4764. — French, 1795.

Principes | De Minéralogie | ou | Exposition Succinte | Des Caractères Extérieurs | Des Fossiles, | D'après les leçons du Professeur Werner, | augmentées d'additions manuscrites four- | nies par cet auteur. | Par | J.-P. Vanberchem-Berthout, chef de la | division des mines à la Commission des | armes, poudres, et exploitation des mines. | Et Henri Struve, professeur d'Histoire | Naturelle à Lausanne. | [tapered rule] | A Paris, | Chez Reynier, Imprimeur-Libraire, rue du | Théâtre-Français, No. 4. | [rule] | L'an III<sup>e</sup>. de la République Française.

8° in 4s:  $\pi^4$  A-D<sup>4</sup> E<sup>6</sup> F-Y<sup>4</sup> Z<sup>2</sup>; 94 $\ell$ .; [i]-viii, [1]-176, [3], [1] blank p., folding table (p. 168), 2 plates of crystal drawings (Plate 1: figs. 1-8; plate 2: figs. 9-16). Page 136 misnumbered 134.

CONTENTS: [i-ii], Title page, verso blank; iii-viii, "Avertissement."—signed Berthout.; [1]-68, Text.; 69-98, "Notes."; 99-102, "Règles | Pour Décrire Les Fossiles | d'après leurs caractères extérieurs, | Et divers Exemples de Descriptions."; [103], "Descriptions | de Quelques Fossiles, | D'après Leurs | Caractères Extérieurs, | Traduites | de Werner Et De Karsten."; [104], Blank.; 105-134 (i.e., 136), Text, being descriptions of various species first recognized by Werner.; 137-139, "Avis."—signed Berthout.; 140-168, "Système | D'orictognosie De Werner."; [Facing page 168], Folding table, "Tableau | Des propriétés ou modifications d'où dépendent les caractères extérieurs des fossiles."; 169-176, "Table | Des Progressions."; [3 pgs], Tables | Des Matières."; [1 pg], Blank.; [At end], 2 plates of crystal drawings.

VERY SCARCE. Co-authored with Henri Struve (which see). To further advance Wernerian principles in France the authors published this work, which in essence is an abstracted, modified translation of Werner's *Von den äusserlichen Kennzeichen der Fossilien* (1st ed., Leipzig, 1774). It was written under the supervision of Werner and contains many additions and corrections to his mineralogical system that were provided by Werner himself.

REFERENCES: DSB: 14, 256-64 [by A. Ospovat]. • Fischer, *Sachsisches Oberbergamt Freiberg*, 1943. • *Journal de Physique*: 45 (1794), 77. • LKG: IX 20.

**VARGAS-BEDEMAR, Edouard Romeo.** (BORN: Kiel, Schleswig-Holstein, Germany, 15 January 1770; DIED: Copenhagen, Denmark, 15 March 1847) *Danish aristocrat & mineralogist.*

Vargas-Bedemar was born to wealth and privilege. At an early age he became interested in geology and mineralogy and formed a large collection of specimens. To enrich his collection and his understanding he made collecting trips through out Scandinavia, including Denmark, Norway, Sweden, the Faeroe Islands, Iceland, and Lappland. He also traveled extensively through Europe, visiting all the major cities. The myth of Atlantis was also of great interest to his studies. In 1806 he was elected to the Danish Academy of Sciences.

REFERENCES: Althof, Hans-Joachim., *Carl Friedrich August Grosse (1768-1847), alias Graf Edouard Romeo von Vargas-Bedemar*. Ein Erfolgsschriftsteller des 18. Jahrhunderts. Bamberg, Difo-Druck, 1975. 255 p., illus. • *Dansk Biografisk Haandleksikon*. • *Dansk Biografisk Lexikon*: 18, p. 260-263. • DBA: I 1301, 311-312. • Nyerup & Kraft, *Almindeligt Litteraturlæxikon*, 1818-20. • Poggendorff: 2, cols. 1174-5. • SBA: Scandinavian Biographical Archive: A-345, 235-242. • WBI.

### 4765. — Italian, 1805.

Introduzione allo Studio della Mineralogia. [Naples, 1805].

8°: vi, 45, [1] p.

VERY RARE. An short *Introduction to the Study of Mineralogy*. It is perhaps an Italian translation of the paper: "Schreiben des berühmten Mineralogen Edward Grafen von Vargas an den Baron von Schubarth über den neuesten Ausbruch des Vesuvs," *Annalen der Physik*, 19 (1805), p. 177 ff.

REFERENCES: BL: [no copy listed]. • BMC: 5, 2194.

### 4766. — German, 1819-20.

Reise nach dem hohen Norden durch Schweden, Norwegen und Lappland in den Jahren 1810, 1811, 1812 und 1814. Frankfurt am Main, Hermann, 1819-20.

2 vols. [VOL 1: 1819] 8°: xxii, 570 p. [VOL 2: 1820] 8°: xii, 374 p., one folding map.

VERY SCARCE. Topographical study describing the author's extensive trips through the Scandinavian countries. He also had a great interest in mineralogy, so the text contains frequent references to subjects of mineralogical interest.

**Facsimile reprint, 1996:** Ewa Falch, ed., *Die Reise nach dem Hohen Norden durch Schweden, Norwegen und Lappland in den Jahren 1810, 1811, 1812 und 1814 von Carl Friedrich August Grosse, alias Edouard Romeo, Graf von*

Vargas Bedemar, *im Kontext der europäischen Reiseliteratur*. Oslo, 1996.

REFERENCES: BL: [10280.c.29]. • Garboe, *Geologiens Historie i Danmark*, 1959-61.

# VARLEY, Delvalle.

See: Lowry, Delvalle (Afterwards Varley).

**VELTHEIM, August Ferdinand, Graf von.** (BORN: Castle of Uarbke, Harbke near Helmstadt, Germany, 1741; DIED: Braunschweig, Germany, 2 October 1801) *German mineralogist & geologist.*

Veltheim decided at an early age that he would pursue the study of mineralogy, and as a consequence his parents made arrangements for him to attend mineralogical courses at the University of Helmstadt. In 1762 he was appointed as a financial advisor to the Duke of Braunschweig, and in this position made extensive journeys with his father to the mines and saltworks of the region. On his return in 1766, Veltheim was made inspector of the mines in the very rich mining district of the Hartz Mountains. In 1779, after the death of his much beloved wife, Veltheim resigned the post and for several years withdrew from public life. He often recounted a story about how having been offered a fine collection of minerals but no money to purchase the specimens, his wife unselfishly sold her jewelry to acquire the collection for her husband. The Duke of Braunschweig appointed him a privy councillor, and in 1790 Empress Catherine of Russia named Veltheim as general inspector of mines and saltworks in the western regions of the Russian empire. As attractive as these posts were, Veltheim apparently preferred the calm life of Harbke, his home town, to which he soon returned. On the grounds of the Castle Uarbke, he established a widely acclaimed garden which he opened to the public, and his home became a meeting place for many people who had attained social, scientific or literary status. There visitors found a large, carefully selected library, a fine cabinet of minerals and fossils, some collections of engravings, etc.

Geology was a favorite interest of Veltheim. He conceived a plan to write an extended work on the formation of the earth, but only the first part, *Etwas über die Bildung des Basalts* (1st ed., Leipzig, 1787; 2nd ed., Braunschweig, 1789) appeared. This work is of importance to the history of geology because Veltheim is the first to correctly attribute the origins of granite to a volcanic mechanism. For the most part, Veltheim was an original thinker, not hindered by the fanatical adherence to Wernerian doctrine, then predominant throughout German geological science. Unfortunately, his number of publications was small, and based on there scarce nature probably not widely circulated. Veltheim received an honorary doctorate in science from the University of Helmstadt in 1793.

REFERENCES: ADB: 39, 585-6. • *Biographie Universelle*: 43, 89-90. • DBA: I 1303, 366-436; II 1336, 127. • Drugulin, *Sechstausend Portraits*, 1863: no. 5627. • Fischer, *Gesteins- und Lagerstättenbildung*, 1961: 21. • Henke, H.P.C., *Elogium A.F. Comiti de Veltheim*. Helmstadii, 1802. 60 p. • Hirsching, *Historisch-literarisches Handbuch*, 1794-1815. • Lambrecht & Quenstedt, *Catalogus*, 1938: 441. • Poggendorff: 2, col. 1191. • WBI.

# 4767. — German, 1787 [First edition].

Etwas über die Bildung des Basalts und die vormalige Beschaffenheit der Gebirge in Deutschland. Leipzig, 1787.

8°: VERY SCARCE.

REFERENCES: LKG: XIII 174.

**4768. 2nd edition, 1789:** Etwas über die Bildung des Basalts und die vormalige Beschaffenheit der Gebirge in Deutschland. 2nd. ed. Braunschweig, 1789.

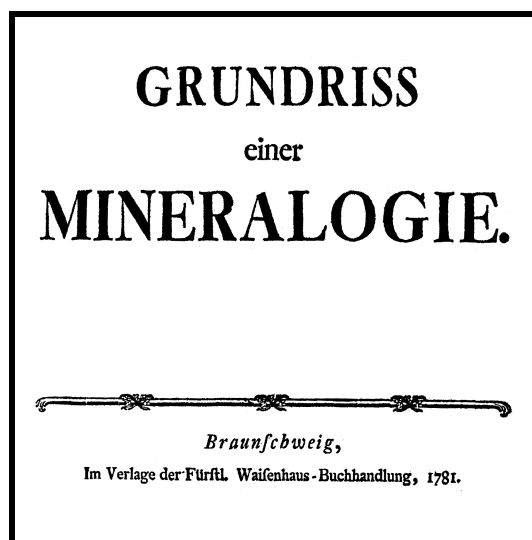
8°: VERY SCARCE.

# 4769. — German, 1797.

Etwas über die Onyxgebirge des Ciesias, und den Handel der Admsten nach Ostindien. Helmstadt, 1797.

8°: VERY SCARCE.

REFERENCES: BL. • CBN: 205, cols. 173-4. • Gatterer, *Mineralogischen Literatur*, 1798-9: 2, 51. • *Göttingische gelehrte Anzeigen*: Dec., 1797, 2073 [Enthält die Resultate einer großen Belesenheit und eines tiefen Forschungsgeistes.]. • GV (1700-1910): 150, 170-1. • LKG: II 16. • NUC: 632, 145 [NV 0078086].



GRUNDRISS EINER MINERALOGIE, 1781

# 4770. — German, 1781.

Grundriss | einer | Mineralogie. | [ornate rule] | Braunschweig, | Im Verlage der Fürstl. Waifenhaus-Buchhandlung, 1781.

2°: A-G<sup>2</sup>; 14ℓ.; [28] p. (no page numbers).

VERY SCARCE. Veltheim wrote this work after his appointment as inspector of mines in the Hartz Mountains.

REFERENCES: *Allgemeine Deutsche Bibliothek*: 49, no. 1, 138 [ganz tabellarisch, aber überaus gründlich oder lehrreich]. • BL. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 28. • GV (1700-1910): 150, 170-1. • LKG: XII 83. • NUC: 632, 145 [NV 0078082].

# 4771. — German, 1800.

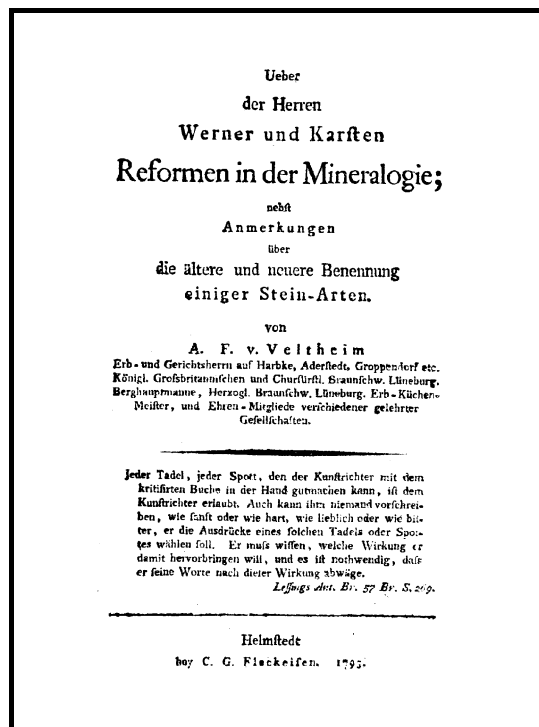
Sammlung | einiger | Aufsätze | historischen, antiquarischen, mineralogischen und | ähnlichen Inhalts, | von | A.F. Grafen von Veltheim, | [...6 lines of titles and memberships...] | [vignette] | Erster [-Zweiter] Theil. | [ornate rule] | Helmstedt | bey C.G. Fleckeisen. 1800.

2 vols. [VOL 1] 8°: π<sup>5</sup> A-Q<sup>8</sup> R<sup>6</sup>; 139ℓ.; [10], 1-268 p., one folding engraved plate. [VOL 2] 8°: π<sup>2</sup> A-S<sup>8</sup> T<sup>2</sup>; 146ℓ.; 1-291, [1] p., text illus. (p. 72).

## VELTHEIM

RARE. A collection of essays on geological, mineralogical and gemological subjects that are here collected into a single work. Included in the subjects are the formation of basalt, the ironworks on Germany, reformation of mineralogical science, what is a species in mineralogy, determining authentic gemstones, the Onyx mountains of the Ctesias in India, etc.

REFERENCES: BL. • GV (1700-1910): 150, 170-1. • Hoover Collection: no. 812. • LKG: II 17a. • NUC: 632, 145 [NV 0078083]. • Sinkankas, *Gemology Bibliography*, 1993: no. 6834.



REFORMEN IN DER MINERALOGIE, 1793

### 4772. — German, 1793.

Ueber | der Herren | Werner und Karsten | Reformen in der Mineralogie; | nebst | Anmerkungen | über | die ältere und neuere Benennung | einiger Stein-Arten. | von | A.F.v. Veltheim | [...5 lines of titles and memberships] | [tapered rule] | [...8 lines of quotation in German, signed on the 9th line, "Lessings Ant. Br. 57 Br.S. 269." ] | [rule] | Helmstedt | bey C.G. Fleckeisen. 1793.

8°: A-E<sup>8</sup> F<sup>2</sup>; 42ℓ.; [1]-84 p. PAGE SIZE: 196 x 120 mm.

CONTENTS: [1-2], Title page, verso blank.; [3], Dedication to Ferber and Von Born.; [4], Blank.; [5]-84, Text.

RARE. This monograph is a very strong criticism of Werner's mineralogical theories and the support of these theories given by DIETRICH LUDWIG GUSTAV KARSTEN in *Ueber Herrn Werners Verbesserungen in*

*der Mineralogie* (Berlin, 1793). Veltheim presents his arguments as counterpoints to quotations taken from the publications of Werner and Karsten.

REFERENCES: *Allgemeine Literatur-Zeitung*: Feb., 1796, 311. • BL. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 268. • GV (1700-1910): 150, 170-1. • Hoover Collection: no. 813. • LKG: XII 193. • NUC: 632, 145 [NV 0078084]. • Sinkankas, *Gemology Bibliography*, 1993: no. 6832 [no detail].

4773. Supplement, 1793: Etwas | über | Memnons Bildsaule, | Neros Smaragd, Toreutik | und | die Kunst der Alten in Stein und Glas | zu schneiden, | als Zustz zur Abhandlung | über | die Reformen in der Mineralogie. | von | A.F. v. Veltheim. | [vignette] | [rule] | Helmstedt, | bey C.G. Fleckeisen. 1793.

8°: A-D<sup>8</sup>; 32ℓ.; [1]-61, [3] p., title vignette. VERY SCARCE.

CONTENTS: [1-2], Title page, verso blank.; [3]-4, Dedication.; 5-61, Text.; [1 pg], Blank.; [1 pg], Errata.; [1 pg], Blank.

REFERENCES: BL. • CBN: 205, cols. 173-4. • GV (1700-1910): 150, 170-1. • LKG: XII 197a. • NUC: 632, 145 [NV 0078079]. • Sinkankas, *Gemology Bibliography*, 1993: no. 6833.

Observations de M. de Trébra sur l'Intérieur des Montagnes, précédées d'un Plan d'une Histoire générale de la Mineralogie par M. de Veltheim, avec un discours préliminaire et des notes de M. le Baron de Dietrich. (Paris, 1787).

See: Trebra, Friedrich Wilhelm Heinrich Von.

VELTHEIM, Franz Wilhelm Werner von. (BORN: Rothenburg an der Saale, Germany, 10 November 1785; DIED: Schönfliess near Berlin, Germany, 31 December 1839) *German mining expert*.

Mining official in Halle from 1816 to 1835. After death of J.C.L. Gerhard (which see), Veltheim was appointed head of the mining establishment in Berlin.

REFERENCES: ADB: 39, 586-7. • DBA: I 1303, 437; II 1336, 128. • Poggendorff: 2, col. 1192. • WBI.

### 4774. — German, 1820.

Mineralogische Beschreibung der Gegund von Halle. Halle, 1820.

8°. VERY SCARCE.

REFERENCES: GV (1700-1910): 150, 171. • Poggendorff: 2, col. 1192.

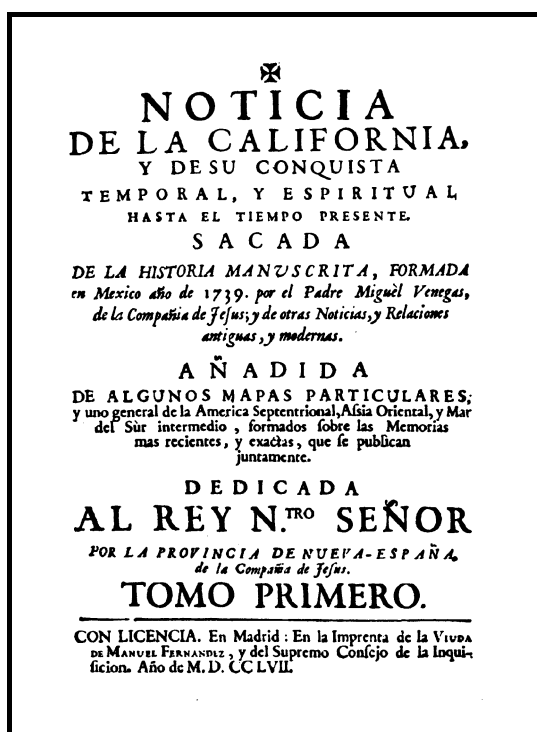
VENEGAS, Miguel. (BORN: 1680; DIED: 1764) *Spanish Jesuit*.

Venegas entered the Society of Jesus (Jesuits) at Tepetzotlán in 1700, was ordained in 1705, and served from 1714 to 1724 as a professor of theology at the Colegio Máximo de San Pedro y San Pablo in Mexico City. For reasons of health, he was appointed administrator to the Jesuit hacienda of Chicomocelo, where he prepared medications and dedicated himself to writing. In 1731 he authored the classic *Manual de Parrocos*, and in 1734 he completed a biography of the Jesuit Juan Bautista Zappa. Inspired by the expansion of the Jesuits in Sonora, Pimería Alta, and California, Venegas sought to serve in the California enterprise, but was turned down because of his delicate health. Thus, the first historian of California never set eyes on the land.

REFERENCES: ABE: I 1001,295-301; II 934, 46; III 428, 259. • *Biographie Universelle*: 43, 109. • WBI.

### 4775. — Spanish, 1757 [First edition].

✱ | Noticia | De La California, | Y De Su Conquista | Temporal, Y Espiritual | Hasta El



NOTICIA DE LA CALIFORNIA, 1757

Tiempo Presente. | Sacada | De La Historia Manuscrita, Formada | en Mexico año de 1739. por el Padre Miguel Venegas, | [...2 lines of titles and memberships...] | Añadida | De Algunos Mapas Particulares; | y uno general de la America Septentrional, Asia Oriental, y Mar | del Sur intermedio, formados sobre las Memorias | mas recientes, y exactas, que se publican | juntamente. | Dedicada | Al Rey N.º Señor | Por La Provincia De Nueva-España, | de la Compañia de Jesus. | Tomo Primero. | [rule] | Con Licencia. En Madrid: En la imprenta de la Viuda | de Manuel Hernandez, y del Supremo Consejo de la Inqui- | sición, Año de M.D.CCLVII.

3 vols. [VOL 1] 4°: [24], 240 p. [VOL 2] 4°: [8], 564 p. [VOL 3] 4°: [8], 436 p., engraved head- and tailpieces in text, 4 copper-engraved folding maps

RARE. A cornerstone to the literature of California, this is the first natural and political history of that land. In his research for the book, Venegas employed a sophisticated historical methodology, collecting original manuscripts, reports, official documents, and memoirs—in short anything dealing with California. In addition, he wrote letters and sent questionnaires to the many missionaries advancing into the country asking for their observations and experiences. Decisively in 1735, high officials of the Jesuits ordered that all archival material relevant

to California be provided to Venegas.

By 1739, Venegas had finished his ten volumes of manuscript, but because the work revealed the weakness of Spanish defenses in California, it was stored away until 1749 when it was sent for revision and publication in Madrid. This task was given to the Jesuit savant Andrés Marcos Burriel at Toledo in 1750. Burriel retrieved additional material from the archives of the Society of Jesus to augment Venegas's text with events that occurred since 1739, as well as geographical data from the Académie Royale des Sciences in Paris. By 1754, Burriel had finished his revisions and additions, submitting his manuscript of 1,150 pages and four maps for licensing to be published. Finally, in 1757, the *Noticia de la California* appeared in bookseller's stalls in Madrid.

The first section treats the geography and native inhabitants of California. The second portion gives the history of attempts to occupy the land before the Jesuits. The third part describes the work the Jesuits had done in California. The final section, provided by Burriel, comprises documentary appendices, and is illustrated by three of the four maps. a description of the natural history of the land is included and includes information on the soil, mountains, harbors, lakes, rivers, seas, animals, botany, mineralogy, fish, etc. The book was an immediate success, with translations prepared in English, Dutch, French and German.

**Second edition, 1943:** The text, reset with new errata, was published by México City, Editorial Layac, 1943.

**Facsimile reprint, 1979:** W. Michael Mathes, Vivian C. Fisher & E. Moisés Coronado, eds., *Obras Californianas del Padre Miguel Venegas, S.J.* La Paz, Universidad Autónoma de Baja California Sur, 1979. 5 vols. [AzU F864 .V292 1979].

REFERENCES: BL. • LKG: XIV 903.

**4776. English transl., 1759:** A Natural and Civil | History | of | California: | Containing | An accurate description of that Country, | Its Soil, Mountains, Harbours, Lakes, Rivers, | and Seas; its Animals, Vegetables, Minerals, | and famous Fishery for Pearls. | The | Customs of the Inhabitants, | Their Religion, Government, and Manner of Living, | before their Conversion to the Christian Religion by | the missionary Jesuits. | Together With | Accounts of the Several Voyages and attempts made for | settling California, and taking actual Surveys of that | Country, its Gulf, and Coast of the South-Sea. | Illustrated With | Copper Plates, and an engraved Map of the Country and | [ONE UNREADABLE LINE] | Translated from the original Spanish of Miguel Vene- | gas, a Mexican Jesuit, published at Madrid 1758. | [rule] | In Two Volumes. | [rule] | Vol. I. | [double rule] | London, | Printed for James Rivington and James Fletcher, | ... 1759.

2 vols. [VOL 1] 8°: [20], 455, [1] p., engraved frontispiece. [VOL 2] 8°: [8], 387, [1] p., engraved frontispiece, one folding engraved map, 2 plates.

VERY SCARCE. A famous work containing a History of California from its earliest discovery. It gives accounts of the various voyages and expeditions there, the attempts made at settlement, and the surveys made of its interior and coastline.

**Facsimile reprint, 1966:** A Natural and Civil History of California ... Ann Arbor, Michigan, University Microfilms, Inc., 1966. 2 vols. [20], 455, [1] p., engraved frontispiece.; [8], 387, [1] p., engraved frontispiece, one folding engraved map, 2 plates. Published as: *March of America Facsimiles*, No. 38. [AzSU Hayden, F864 .V53 1966].



REFERENCES: NUC.

**4777. Dutch transl., 1761-2:** Natuurlyke en burgerlyke historie van California behelzende eene naauwkeurige beschryving van dat gewest ... uyt het oorspronkelyk Spaans van Miguel Venegas, Jesuit te Mexico, te Madrid in 't jaar 1758 uytgekomen, in 't Engels, en nu in 't Nederduyts vertaald door J.J.D. Te Haerlem, Gedrukt by Johannes Enschedé, 1761-2.

2 vols. VERY SCARCE.

REFERENCES: Ward & Carozzi, *Geology Emerging*, 1984: no. 2240.

**4778. French transl., 1767:** Histoire | Naturelle Et Civile | De La | Californie, | Contenant | Une description exacte de ce Pays, de son | Sol, de ses Montagnes, Lacs, Rivières, | & Mers, de ses Animaux, Végétaux, | Minéraux, & de sa fameuse Pecherie des | Perles; les Moeurs de ses Habitans, leur | Religion, leur Gouvernement, & leur | façon de vivre avant leur conversion au | Christianisme; un detail des différens | Voyages, & Tentatives qu'on a faites | pour s'y établir, & reconnoître son Golfe | & la Cote de la Mer du Sud. | Imrichie le la Carte dese Pays & des Mars | Traitaire de l'Anglois, par M.E.\*\*. | Tome Premier. | [ornament] | A Paris, Chez Durand, Libraire, rue Sainte-Jacques | à la Sagete. | [double rule] | M. DCC. LXVII. | Avec Approbation & l'privilege du Roi.

3 vols. [VOL 1] 12°: xxi, folding map, 1-360 p. [VOL 2] 12°: viii, 1-375 p. [VOL 3] 12°: viii, 354, 2 p.

VERY SCARCE. Translation by M.A. Eidous of *Noticia de la California* (Madrid, 1757).REFERENCES: Sabin, *Dictionary*, 1868-1936: no. 98843.

**4779. German transl., 1769-70:** Natürliche und bürgerliche | Geschichte | von | Californien | nebst einer neuen Charte dieses Landes und der benachbarten | Meere. | Aus dem Englischen übersetzt | und herausgegeben | von | Johann Christoph Adelung. | [...one line of memberships...] | [double rule] | Erster Theil. | [rule] | [vignette] | [ornate rule] | Lembo, | in der Meyerschen Buchhandlung, 1769.

3 vols.

VERY SCARCE. Translation by JOHANN CHRISTOPH ADELUNG of *Noticia de la California* (Madrid, 1757).REFERENCES: Ward & Carozzi, *Geology Emerging*, 1984: no. 2241.

ABHANDLUNG VON DEN STEINEN, 1763

**VENETTE, Nicolas.**REFERENCES: *Biographie Universelle*: 43, 111-12 [lists other titles].**4780. — French, 1701** [First edition].

Traite' | Des | Pierres | Qui s'engendrent dans les | Terres | & dans les Animaux, | Ou l'on parle exactement des causes | qui les forment dans les | Hommes. | La Méthode de les prévenir & les abus | pour s'en garantir & pour les chasser | même hors du Corps. | Par Feu Mr. Nicolas Venette | [...2 lines of titles and memberships...] | Enrichie des Figures. | [ornament] | A Amsterdam, | Chez Jean & Gilles Janssons | A Waesberge. | [rule] | M.D.C.C.I.

8°: [4], 326, [4] p., frontispiece (portrait), 7 plates (one folding). Title in red and black.

RARE. Venette suffered from gallstones and trying to discover their root cause, he studied various aspects of stone formation, which lead to his remarkable *Treatise on Stones*, which is a collection of his thoughts on geology, mineralogy, and human calculi. In this work, he describes volcanoes (Mt. Ætna), various gemstones, building materials, fossils, corals, etc. His principal interest being in the methods of their creation and their relation to the development of various stones that occur in the human body.

REFERENCES: Boehmer, *Bibliotheca Historiæ Naturalis*, 1785-9: 4, pt. 1, 217. • Gatterer, *Mineralogischen Literatur*, 1798-9: 2, 8. • Hoover Collection: no. 817. • LKG: XVI 93. • Sinkankas, *Gemology Bibliography*, 1993: no. 6835 [long description].

**4781. German transl., 1763:** Abhandlung | von den | Steinen, | welche | in der Erde und in den Thieren | erzeugt werden, | darin man die Ursachen genau untersucht, | welche | sie in den Menschen hervorbringen, | und ferner die Art entdeckt, wie man dem | Stein zuvorkommen und ihn aus dem menschlichen Körper bringen kan. | Übersetzt | aus dem Französischen | des | Herrn Venette, | [...2 lines of titles and memberships...] | [rule] | Mit Kupfern. | [rule] | Gorau, bey Gottlob Hebold. | 1763.

8°: 182, [18] p., frontispiece (portrait of Venette in an oval frame), 7 plates (one folding).

RARE. Translation of *Traité de Pierres* (Amsterdam, 1701).REFERENCES: Boehmer, *Bibliotheca Historiæ Naturalis*, 1785-9: 4, pt. 1, 217. • Gatterer, *Mineralogischen Literatur*, 1798-9: 2, 8. • Hoover Collection: no. 818. • LKG: XVI 93. • Schröter's *Journal für die Liebhaber*: 5, 220. • Sinkankas, *Gemology Bibliography*, 1993: [no copy listed].**VERNADSKY (Vernadskii), Vladimír Ivanovich.** (BORN: St. Petersburg, Russia, 12 March 1863; DIED: Moscow, Russia, 6 January 1945) *Russian geochemist & mineralogist.*

Vernadsky graduated from St. Petersburg University in 1886, becoming an assistant in Moscow University. In 1888, he had post graduate studies under P. GROTH in Munich, and in 1889-90 in Paris he worked in the laboratories of Fouqué, Le Chatelier and Curie. In 1891, he returned to Moscow becoming a private docent. From 1898 to 1911, he was professor of mineralogy. He was also post-rector from 1906-11. When he was elected to the Academy of Science in St. Petersburg in 1906, he also was given charge of the mineral collection. On the relocation of the Academy to Moscow, he became director of the biogeochemical laboratory. His research was principally in geochemistry and the formation of minerals.

REFERENCES: Aksenov, G.P., ed., *Vladimir Vernadskii: zhizneopisanie, izbrannye trudy, vospominaniia sovremennikov, suzheniia potomkov* = Vladimir Vernadsky: *biography,*

selected works, reminiscences of contemporaries, opinions of descendants. Moskva, "Sovremennik", 1993. 685 p., illus. ["Dedicated to the 130th anniversary of the birth of the founder of the scientific conception of biosphere and noosphere V.I. Vernadsky."]. • *American Mineralogist*: 32 (1947), nos. 3-4, 181-8, portrait. • Balandin, R.K., Vladimir Vernadsky. Moscow, MIR Publishers, 1982. 206 p., [16] p. of plates, illus. [Biography of Vladimir Ivanovich Vernadskij]. • Bouška, V., "Vladimir Ivanovič Vrenadskij (1863, +1945)," *Casopis pro Mineralogii a Geologii*, 8 (1963), pt. 4, 396-8, portrait. • DSB: 13, 616-20 [by I.A. Fedoseyev]. • *Geologiska Föreningens i Stockholm Förhandlingar*: 67 (1945), no. 4, 534-48, 2 portraits. • Gordeev, D.I. and K.P. Mel'nikova, "Vladimir Ivanovič Veradskij über das Wasser," *Geologie*, 20 (1971), nos. 6-7, 728-35. • *Great Soviet Encyclopedia*: 4, 611-2. • IAnshina, F.T., Развитие философских представлений В.И. Вернадского [Razvitie filosofskikh predstavlenii V.I. Vernadskogo]. Moskva, "Nauka", 1999. 141 p. [ISBN 5020043036; Development of philosophical ideas of V.I. Vernadsky.]. • *ISIS*, 1913-65: 2, 581-2. • Krüger, P., "V.I. Vernadskij", (pp. 105-113) in: Guntau, M., ed., *Biographien bedeutender Geowissenschaftler der Sowjetunion: 19 biographischer Darstellung zu bedeutenden Gelehrten der russian sowjet. Geologiegeschichte*. Berlin, Akademie-Verlag, 1979. [Published as: *Schriftenreihe für geologische Wissenschaften*, Berlin, 14 (1979).]. • La Rocque, *History of Geology*, 1964: 1, 25-6 [by S. Chaudhuri]. • *Mineralogical Magazine*: 28 (1947), no. 199, 223-4, portrait. • Poggendorff: 4, 1619, 5, 1305-6 & 6, ??? • Sarjeant, *Geologists*, 1980: 3, 2327-8, Suppl. 1 (1986), 2, 854 & Suppl. 2 (1995), 2, 1165. • Scerbina, V.V. and V.I. Gerasimovskij, "Der Beitrag V.I. Vernadskijs zur Untersuchung der Lagerstätten mineralogischer Rohstoffe," *Geologie*, 20 (1971), nos. 6-7, 736-9. • *World Who's Who in Science*: p. 1719. • Zvorykin, *Biograficheskii Slovar*, 1958: 1, 144-6, portrait.

#### 4782. — Russian, 1894.

Лекции Кристаллографии [Lekcii Kristallografii]. Moskva, Izd. Stud. Fiz.-Mat. Fak., 1894.

8°: 255 p. RARE.

REFERENCES: BL: [no copy listed].

#### 4783. — Russian, 1897.

IAvleniia skol'zheniia kristallicheskago veshchestva ... Moskva, Universitetskaya tip., 1897.

182 p., [2] leaves of plates.

VERY SCARCE. **REWORK ENTRY**

RARE. After several false starts, Vernadsky finally completed work on his doctoral dissertation in 1896 and received the degree the following year, defending his thesis at Moscow University. Although he originally intended to write on the subject of polymorphism in minerals, which had fascinated him for years, he decided that the subject was too broad and would require too many years of experimental work to do properly. He chose instead a narrower topic in crystallography, in order to have the degree out of the way and qualify for a professorship. 109

Vernadsky's work in crystallography in general was concerned with the relationship of crystal form to the underlying "physiochemical structure and emphasized the importance of energetics in studying crystals. "110 The particular problem he chose for his doctoral dissertation was the phenomena of gliding in crystal substances. As he explained it to his wife while completing most of the work in the summer of

1896, the dissertation would contain five chapters and a conclusion, the first a general introduction explaining the significance of the problem and discussing previous literature, the following three on the phenomena of gliding in rock salt, izvestkovoi shpat (spar), and several other minerals, giving a summary of known instances of these phenomena, the fifth chapter would be on the connection between the planes involved in gliding and the symmetry of crystals. Vernadsky's intention was to proceed from the particular, his own experimental observations and measurement of the phenomena, to some general conclusions at the end." He completed much of the work by the beginning of August (over two hundred pages), but remained unhappy with it as he left Russia to join his wife in Paris for the remainder of the summer:

I cannot say that I am satisfied with the work. It is reminiscent of a bear's dance, that is, it can scarcely be considered on a high level esthetically. But from the standpoint of esthetics, sometimes, individual leaps of the bear are successful. My work represents such a bear's dance in science. Most of all I am vexed by the fact that, due to malaise, there are a whole series of questions which I have not treated. I am too lazy to do complex measurements, too lazy to carry out proper mathematical preparation; and now, preparing this work for printing, I feel a whole series of fundamental questions I have not treated. I will return to some of these questions, but in general I have the feeling that I have approached and skirted, come close to discovery, but have made none, due to laziness and diletantism. 112

Although Vernadsky tended at times to be a very harsh self critic, his doctoral dissertation was approved with praise by his university and judged a creative piece of work by a later generation of Russian specialists in crystallography. As one of the foremost Soviet crystallographers, Shafronovsky, wrote in later years:

Here we find the richest synthesis of data relating to unique deformations of crystals, created as a result of gliding, that is the shifting of separate parts of a crystal along straight lines while preserving the volume, weight, and homogeneity of matter. Vernadsky revealed the connection between the planes of gliding, the crystalline facets and elements of symmetry. Here for the first time, he underlined the need to make several qualifications in our conceptions about the complete homogeneity of crystalline polyhedrons in connection with changes in their physical features in their surface state. According to this idea, crystals are viewed not as abstract geometrical systems, but as real physical bodies. At the present time, the proposition put forward by Vernadsky is generally accepted. 122

Just before his defense, Vernadsky submitted a copy of his dissertation for comments to the man who was probably the most creative and best known crystallographer in Russia at the time, E. S. Fedorov, a professor of geology at the Moscow Agricultural Institute. In his response, Fedorov was both complimentary and critical of Vernadsky's work. As he wrote

## VERNADSKY

on March 13, 1897:

I want to congratulate you on a very interesting and instructive piece of research, "On the Planes of Gliding," and thank you sincerely for sending me this work, from which I have extracted much that is useful, although I have not had time to read it through as carefully as it deserved. I regret that the work came into my hands just as my textbook on crystallography was being printed. Otherwise I would have used material from it that is instructive. 123

Fedorov went on to criticize Vernadsky's use of the term "gliding" (skolzhenie) arguing that what he had investigated in his thesis was not gliding at all but another set of phenomena found in crystals, deformations he called displacement (sdvig). This disagreement did not prevent Fedorov from giving the younger Russian scientist high praise when he reviewed the published version of Vernadsky's doctoral dissertation of 1898. Comparing Vernadsky's dissertation with the work of three other contemporary scientists who dealt with various anomalies and deformations in crystals, Fedorov found the work of Vernadsky and one other of these authors to be superior to the other two, since they were distinguished by their completeness and their originality. He was particularly impressed by Vernadsky's critical attitude toward preceding work, his many original observations, and his independent views. Developing some of the critical views he had earlier expressed to the author privately in the letter cited above, he nonetheless closed his review with high praise: "If I elaborated on the weak sides of this work, then it is exclusively because I give this work very great importance and I would be very happy to see these weak sides ironed out in later works by this highly promising author." 124

Crystallography, Mathematical.

Series: Fiziko-kristallograficheskiia izsledovaniia ;

1.

Other Titles: Uchenyia zapiski Imperatorskago Moskovskago universiteta. Otdiel estestvenno-istoricheskii ; vyp. 13.

REFERENCES: Bailes, K.E., *Science and Russian culture in an age of revolutions. V.I. Vernadsky and his scientific school, 1863-1945.* Bloomington and Indianapolis, Indiana University Press, 1990: pp. 65-7. • BL.

### 4784. — Russian, 1899.

Лекции по Описательной Минералогии [Lekcii po Opisatel'noi Mineralogii]. Moskva, Tipo-Lit. Richter, 1899.

8°: 288 p. RARE.

REFERENCES: BL: [no copy listed].

### 4785. — Russian, 1904.

Основы Кристаллографии [Osnovy Kristallografii]. Moskva, Mosk. Gosud. Univ., 1904.

8°: 345 p.

VERY SCARCE. REWORK ENTRY

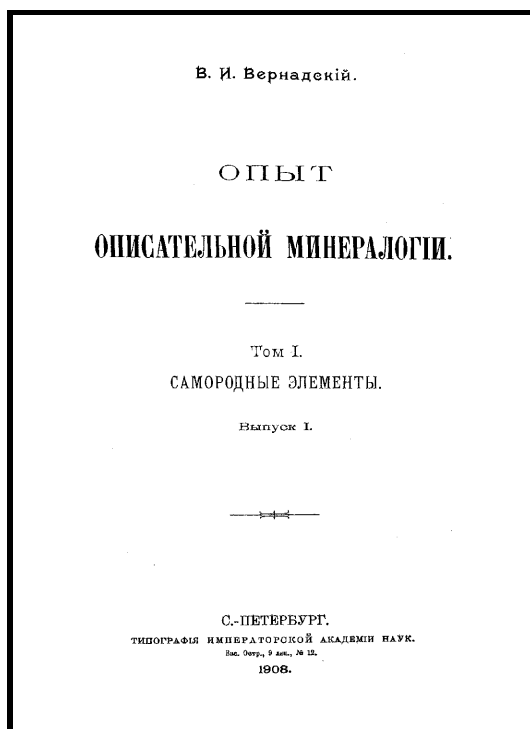
RARE.

Vernadsky continued an interest in crystallography until the end of his teaching career at Moscow Uni-

versity in 1911 and published his first major scientific book, *The Fundamentals of Crystallography*, in 1903.

Vernadsky's own interests went beyond the descriptive and mathematical. In his *Fundamentals of Crystallography*, 126 he asked why crystals have such special geometric forms. For him the study of crystals was interesting for what it could reveal concerning the structure of matter in one of its three fundamental states, solids (as contrasted with liquids and gases), and he sought to connect the form of crystals with the underlying molecular and atomic structures they reflect. 127 For Vernadsky, "crystallography is concerned with the study of the laws of the solid state of matter." 128 In his book, he gave a short historical survey of the development of the field and noted that traditionally the study of crystals had developed independently of physics and chemistry. He sought to bring these subjects together in a closer marriage. He viewed crystallography as a subdivision of mineralogy, since all crystals are, at the same time, minerals. "It is impossible to be a mineralogist," he observed, "without mastering the basic methods of crystallography . . . because the mineralogist is concerned with the solid, crystalline products of chemical reactions on earth." 129

REFERENCES: Bailes, K.E., *Science and Russian culture in an age of revolutions. V.I. Vernadsky and his scientific school, 1863-1945.* Bloomington and Indianapolis, Indiana University Press, 1990: pp. 69-70. • BL: [no copy listed].



ОПЫТ ОПИСАТЕЛЬНОЙ МИНЕРАЛОГИИ, 1908

**4786. — Russian, 1908-14** [First edition].

Опыт Описательной Минералогии [Опыт Описательной Минералогии]. St. Petersburg, Tip. Imp. Akademii Nauk, 1908-14.

2 vols. [Vol 1, part 1: 1908] 8°: pp. 1-176. [Vol 1, part 2: 1909] 8°: pp. 177-336. [Vol 1, part 3: 1910] 8°: pp. 337-496. [Vol 1, part 4: 1912] 8°: pp. 497-656. [Vol 1, part 5: 1914] 8°: pp. 657-839. [Vol 2, part 1: 1918] 8°: pp. 1-144. [Vol 2, part 2: 1922] 8°: pp. 145-254.

VERY SCARCE. **REWORK ENTRY**

**RARE.** Shortly after the publication of *The Fundamentals of Crystallography*, in 1903, Vernadsky returned to a far more ambitious project in mineralogy, for which he had begun gathering material in the 1890s. This was a kind of encyclopedia of the "mineral kingdom" of the Russian Empire. His aim was to gather together and systematically analyze all the known data about the genesis, characteristics, deposits, and industrial significance of all minerals then known in Russia. This work was entitled *An Attempt at a Descriptive Mineralogy*, although the title was a bit misleading, since he obviously hoped to do more than describe minerals in the usual sense. In this work, he wanted to analyze the historical development, structure, known deposits, and uses of every mineral found in Russia. This was obviously more than a single person could hope to accomplish in a lifetime, and Vernadsky began to enlist the help of both his students and other scientists.

As Vernadsky later noted, he received the help of everyone he turned to in Russia, with one exception, the crystallographer E. S. Fedorov, who had become rector of the Mining Institute in St. Petersburg and answered Vernadsky's plea for help with a sharp criticism of the project, which he misunderstood as a dry collection of facts. He considered it impossible ever to complete the project and stated as much to Vernadsky. In this respect, Fedorov was probably correct, since Vernadsky did not complete the project, although what he published proved to be valuable. In another respect, however, his sharp note of rebuke was unfair, since he accused Vernadsky of undertaking the project with purely commercial aims in mind rather than a scientific purpose. There is no evidence that Vernadsky's motives here were commercial, or that he ever realized a profit from those portions of the *Attempt at a Descriptive Mineralogy*, which were finally published. Vernadsky had major ambitions which he often did not fully realize, but a desire to make a large profit does not seem to have been among them. Recognition, even fame, were certainly among the motives that emerge from a careful examination of Vernadsky's legacy, but a strong desire for monetary profit seems much less evident and is contradicted by Vernadsky's own lifestyle, which was ascetic, comfortable but far from luxurious.

Contains a topographical mineralogy, pp. 717-739.

Geographical index, pp. 813-839.

**Collected works, 1954-** : Izbrannye Sochineniia [Otvettvennyi redaktor A.P. Vinogradov] ... Moskva, Izd-vo Akademii Nauk SSSR, 1954- . [DLC, Q113.V4].

**REFERENCES:** Bailes, K.E., *Science and Russian culture in an age of revolutions. V.I. Vernadsky and his scientific school, 1863-1945.* Bloomington and Indianapolis, Indiana University Press, 1990: [pp. 70-2]. • BL: [07107.k.59]. • Dana's 7th (Bibliography): 82. • Grigorev & Shafranovskii, *Russkie Mineralogi*, 1949: pp. 162-95. • Krüger, P., "V.I. Vernadskij", (pp. 105-113) in: Guntau, M., ed., *Biographien bedeutender Geowissenschaftler der Sowjetunion: 19 biographischer Darstellung zu bedeutenden Gelehrten der russian sowjet. Geologiegeschichte.* Berlin, Akademie-Verlag, 1979. [Published as: *Schriftenreihe für geologische Wissenschaften, Berlin, 14* (1979).]. • *Mineralogical Magazine*: 16, 72. • NUC: 634, 435 [NV 0115180]. • Povarennykh, *Definition of Mineral*, 1964. • Spencer, *Catalogue of Topographical Mineralogies*, 1948: [pp. 304 & 306].

**VERSUCH EINES SYSTEMATISCHEN.**

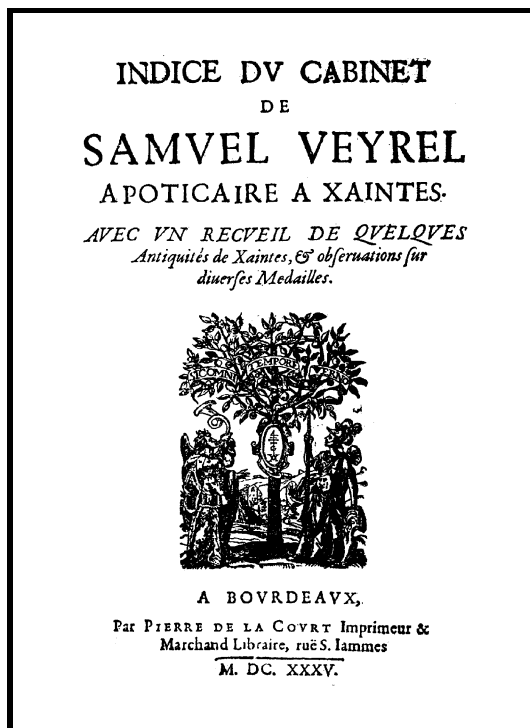
**4787. — German, 1782.**

Versuch eines systematischen Verzeichnisses der Schriften und Abhandlungen vom Eisen, als Gegenstand des Naturforschers, Berg- und Hüttenmanns, Künstlers und Handwerkers, Kaufmanns, Staatshaushalters und Gesetzgebers. Berlin, Rottmann, 1782.

8°: [1]-87 p., index.

**RARE.** Edited by Ephr. Ludwig Gottfried Abt. An early bibliography of iron in the literature of natural historians, miners, metallurgists, artists, etc.

**REFERENCES:** LKG: XVI 248. • Petzholdt, *Bibliotheca Bibliographica*, 1866: p. 566.



INDICE DV CABINET, 1635

## VIENNA, AUSTRIA

### VEYREL, Samuel.

**4788. — Latin, 1635** [Collection catalog].

Indice Dv Cabinet | De | Samvel Veyrel | Apoticaire A Xaintes. | Avec Vn Recveil De Qvelques | Antiquités de Xaintes, & obseruations sur | diuerses Medailles. | [Printer's device] | A Bovredeaux, | Par Pierre de la Covrt Imprimeur & | Marchand Libraire, ruë S. Iammes | [rule] | M. DC. XXXV.

4°: [4], [1]-43, [1] p.

VERY RARE. A precious catalog of an early seventeenth century French cabinet. Archaeologist, numismatist and apothecary, Veyrel assembled a large collection of natural and artificial objects. A synoptic index to its contents is published in this volume. Included within the list are a diverse selection of rare and marvelous products principally of nature and composed of land and aquatic animals, precious and semiprecious stones, metals, minerals, corals, strange fruits, and other curiosities. Veyrel also owned an array of horns (rhinoceros, unicorn, etc.), a large number of preserved birds, small lizards, large reptiles (crocodile), exotic plants, and objects from Brazil and Egypt.

REFERENCES: BL: [603.c.2.(1.)]. • *Cabinets de Curiosités*: no. 368. • CBN: **207**, cols. 707-8. • Desgraves, L., *Les livres imprimés à Bordeaux au 17e siècle*. Genève, Droz, 1971. [1]-264 p: p. 139, no. 866. • Murray, *Museums*, 1904: **3**, 239. • NUC: [no copy listed]. • Schnapper, *Collections et Collectionneurs*, 1988-94: **1**, p. 225-6.

**VÍDALÍN (Widalin), Þorður Þorkelsson.** (BORN: Iceland, 1662; DIED: 1742) *Icelandic physician & naturalist*.

From 1688 to 1690, Vídalín was rector of the school at Skalholt in Iceland. He then opened a medical practice.

REFERENCES: *Dansk Biografisk Lexikon*: **18**, 534-5. • Poggendorff: **2**, col. 1314. • SBA: Scandinavian Biographical Archive: A-112, 308; A-326, 369-371. • WBI.

**4789. — Latin, 1695.**

*Schediasma de Montibus Chrystallinis Islandiae. Hafniae, 1695.*

8°:

VERY RARE. Lambatungnajökull glacier's termination flows down into the Skyndidalur valley from the eastern edge of the Vatnajökull icecap. It probably was the first such natural phenomenon to be researched scientifically by an Icelander, Thordur Vidalin. His disseratation on the subject appeared as *Schediasma de Montibus Chrystallinis Islandiae* (Hafniae, 1695) and was translated into German in 1754. Eventually, it reappeared in Icelandic translation in 1965.

German transl., 1754: "Von den isländische Eisbergen," *Hamburgische Magazin*, **13** (1754), ??-??.

REFERENCES: LKG: XIV 20.

**VIENNA, Austria. K.K. Hof-Mineralien-Kabinet.**

Around 1748, formed part of the private collection of the Sovereign, and was known as the *Hofnaturalien Kabinet*. In 1851, it was established as a separated institution. In 1877, incorporated in the *Kaiserlich-Koenigliches Naturhistorisches Hofmuseum*.

Das K.K. Hof-Mineralienkabinet in Wien. (Wien, 18—).

See: **Hochstetter, Ferdinand Von.**

**4790. — German, 1873.**

Übersicht der Sammlungen | des | K.K. Mineralogischen Cabinets. | [ornate rule] | Das k.k. mineralogische Cabinet befindet sich in der k.k. Hofburg, | Augustinergang. — Es ist dem Publikum geöffnet jeden Mittwoch | und Samstag von 10—1 Uhr. | [Vingette labeled, "Meteorstern von Knyahinya."] | [rule] | Wien. | Aus der kaiserlich-königlichen Hof- und Staatsdruckerei | 1873.

8°: xii, 111 p., map.

VERY SCARCE. Third edition? Catalog of the collection of the Hof-mineral cabinet in Vienna.

REFERENCES: NUC: **636**, 552.

**VIENNA, Austria. K.K. Hof-Mineralien-Kabinet. Bibliothek.**

Katalog der Bibliothek des K.K. Hof-Mineralien-Kabinet in Wien. (Wien, 1851).

See: **Partsch, Paul Maria.**

Katalog der Bibliothek des K.K. Hof-Mineralien-Kabinet in Wien. (Wien, 1864).

See: **Schrauf, Albrecht.**

**VIENNA, Austria. Theresianischen Akademie.**

**4791. — German, 1776.**

Verzeichniß | der | Fossilien | in dem | zur | allgemeinen Oekonomie | gewidmeten Gebäude | der | kaiserl. königl. theresianischen | Akademie. | [ornament] | [double rule] | Wien, | gedruckt bey Joseph Kurzböck, kaiserl. königl. Hof- | buchdrucker und Buchhändler. | 1776.

8°: [20], 410 p.

VERY SCARCE. Descriptive catalog of the economic minerals contained in the collection of the Theresian Academy in Vienna. This large collection incorporated specimens obtained from CHRISTIAN LUDWIG STEIGLITZ in the early 1770's, and some of them are probably described in this catalog. It is not clear as to what happened to the collection after this catalog appeared.

REFERENCES: BL. • Cobres, *Deliciae Cobresianæ*, 1782: **1**, p. 145. • *Leipziger allgemeines Verzeichniss*: **1777**, p. 615. • LKG: XV 32. • NUC: [no copy listed]. • Partsch, *Katalog der Bibliothek*, 1851: no. 485.

**VIENNA, Austria. Wiener Mineralogische Gesellschaft.**

**4792. — German, 1911.**

Mineralogische Taschenbuch der Wiener Mineralogische Gesellschaft, 1911. Wien, 1911.

8°: 192 p., 2 portraits. VERY SCARCE.

REFERENCES: BMC: **5**, 2221.

**VILLENEUVE-FLAYOSC, Benoît-Hippolyte de.** (BORN: 19 August 1803; DIED: Paris, France, 11 May 1874) *French mine engineer*.

Villeneuve-Flayosc was an alumna of the Ecole Polytechnique, from which he graduated in 1822. He was named a professor of Law and Industrial Economics at the



VILLENEUVE FLAYOSC

Paris School of Mines from 1852 to 1862, and helped set government policy on mining and agricultural matters.

REFERENCES: Internet search.

#### 4793. — French, 1856.

Description Minéralogique et Géologique du Var et des Autres Parties de la Provence. Avec Application de la Géologie à l'Agriculture au Gisement des Sources et des Cours d'Eau. Paris, Victor Dalmond, 1856.

8°: xxviii, 532 p., one plate (hand-colored). PAGE SIZE: 230 x 140 mm.

VERY SCARCE. A topographical work describing the mineralogy and geology of area of Provance, with special attention to the application of these subjects to agriculture and other industry in the region.

REFERENCES: BL. • BMC: 5, 2225. • NUC.

#### VILLIERS, André Jean Marie Brochant De.

See: Brochant De Villiers, André Jean Marie.

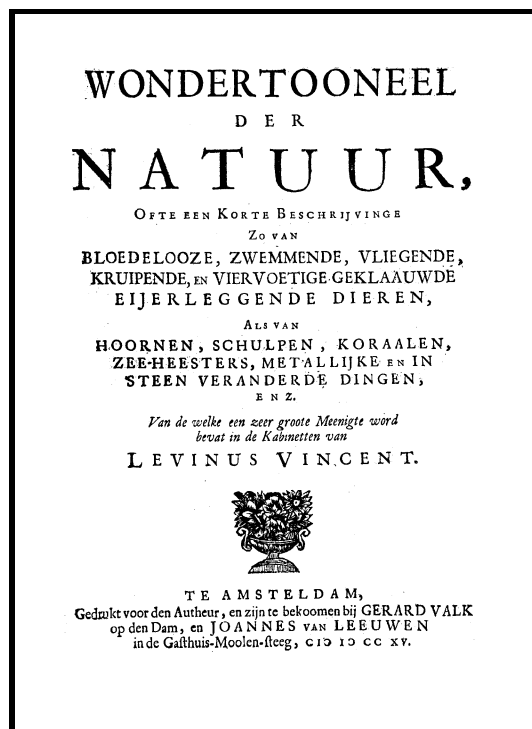
**VINCENT, Levinus.** (BORN: Amsterdam, The Netherlands, 1658; DIED: Haarlem, The Netherlands, 8 November 1727) *Dutch merchant & manufacturer.*

He was married to Jannetje van Breda; her brother Anthonie van Breda had started a natural history collection, which was well known by 1674, and which Vincent subsequently inherited.

REFERENCES: Aa, *Biographisch Woordenboek*, 1852-78. • BAB: 703, 197. • Engel, *Dutch Zoological Cabinets*, 1986: no. 1603. • WBI.

#### 4794. — Dutch, 1706-15 [Collection catalog].

Wondertooneel | Der | Natuur, | Ofte een Korte Beschrijvinge | Zo van | Bloedelooze, Zwemmende, Vliegende, | Kruipende, en Viervoetige Geklaauwde | Eijerleggende Dieren, | Als van | Hoornen, Schulpfen, Koraalen, | Zee-Heesters, Metallijke en In | Steen Veranderde Dingen, | enz. | Van de welke een zeer groote Meenigte word | bevat in de Kabinetten van | Levinus Vincent. | [ornament] | Te Amsteldam, | Gedrukt voor den Auteurs, en zijn te bekoomen bij Gerard Valk | op den Dam, en Joannes van Leeuwen | in de Gasthuis-Moolen-steeg, C1D 1D CC XV.



WONDERTOONEEL DER NATUUR, 1715

2 vols. in one. [VOL 1: 1706] 4°: 30 p., frontispiece (engraved; by Romeyn de Hooghe). [VOL 2: 1715] 4°:  $\pi^8$  A<sup>2</sup>-A<sup>4</sup> B-Z<sup>4</sup> 2A-2L<sup>4</sup> 2M<sup>3</sup>; ??l.; [22], 9-278 p., frontispiece (double-page, engraved), 7 plates. Title in red and black. PAGE SIZE: 248 x 180 mm. uncut.

CONTENTS: [Vol 1] Need.

[Vol 2] [2 pgs], Title page, verso "Op de Print van het Twede Deel van het | ..."; [1 pg], "In Instructissimam rarissimamque"—signed E. van Zurck.; [3 pgs], "In Iconem Titularem | ..."—signed Lamb. Bidloo.; [1 pg], "Op het | Wondertooneel | Der | Natuur, | Van Den Heere | Levinus Vincent"—signed J.V.; [1 pg], "Eenige Drukfouten aldus te verbeuteren." [=errata]; [8 pgs], "Op Het | Wondertooneel | Der | Natuur, | ..."—signed Sylvius, 1712 (in Roman numeral).; [6 pgs], "Voorreede | Aan Den | Leezer." [=forward, and includes a letter signed "Grand Duc de Toscan," dated 12 January 1699].; [Folding frontispiece].; [9]-267, Text.; 268-278, "Bladwijzer | Van De Ingekerfde" (plates bound after page 268).

PLATES: Facing page 9, there is an engraved, folding, frontispiece showing the museum's interior. It is signed "Aivam Buijsen Sculp." It pictures the long hall flanked on the left side by preserved creatures in jars and on the right by plants, shells, fossils and minerals. Running down the center are a series of tables on which the curiosities could be shown to the public. The seven unsigned, folding, engraved plates are bound in after page 268. They are numbered Tab. I to VII. Each pictures one or more drawers from the large collection as follows: I. Insects and butterflies. II. Shells and lobsters. III. Coral. IV. Books, jars of preserved specimens and birds. V. Jars of preserved specimens, birds and archaeological artifacts. VI. Archaeological artifacts. VII. Seeds and husks.

VERY SCARCE. A rare and finely illustrated catalog of the natural history collection formed by the Dutch

## VINCENT

merchant Levinus Vincent. The first part provides a general description of the cabinet, and the second gives detailed descriptions of all the specimens contained in it. It covered the three kingdoms of nature, including a considerable number of mineralogical specimens. Some were well crystallized examples, while others were considered very rare.

Vincent's collection was one of the foremost Wunderkammern in Holland, and when they individually toured the country, it was visited by Czar Peter the Great and Charles III, King of Spain. It had been started in 1674 by Vincent's brother-in-law Anthony Breda, and after his death, the collection was continued by Vincent and his wife. Originally, specimens were displayed in Amsterdam, but Vincent moved his family and the collection first to Haarlem in 1705 and then finally to The Hague in 1726. At each location, the collection was open for review to qualified members of the public. Appreciation for Vincent's cabinet is seen by the material it provided for the works of Valentini, Cramer, d'Argenville, and Knorr. In 1779 the collection, valued at more than 200,000 French livres, was dispersed at auction in the Hague.

The catalog presents two spectacular views of the museum's interior. The first, acting as frontispiece to the first volume, was drawn by the famous Dutch artist Romeyn de Hooghe and engraved by Jan van Vianen. It shows the interior when the collection was situated in Amsterdam. The second double-plate view is used as a frontispiece to the second volume and illustrates (perhaps in idealized form) the grander museum Vincent established in Haarlem. The remaining plates illustrate the magnificent armories that stored the collections, including some minerals. Both natural and ethnographic items are exhibited, many from the Dutch colonies of the East Indies and Surinam.

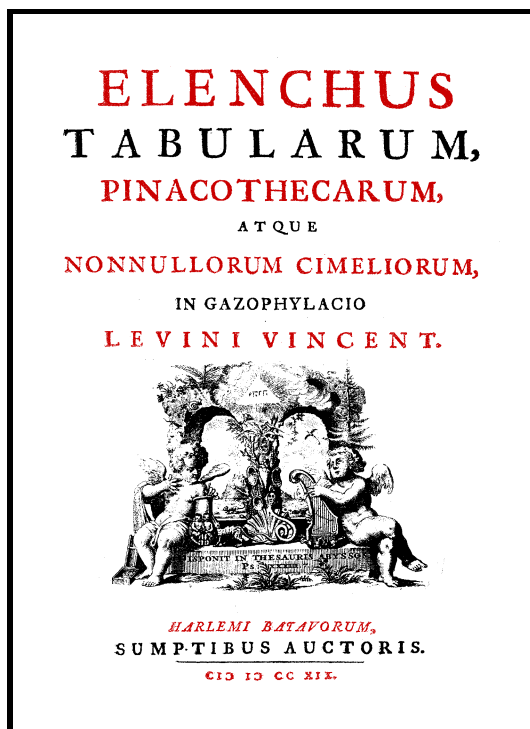
REFERENCES: *Berlinische Sammlungen*: 6 (17??), 421. • Cobres, *Deliciae Cobresianae*, 1782: 1, 117-8 ["Sehr selten, besonders der 2. Theil"]. • Nissen (ZBI): no. 4254. • NUC. • Wilson, *History of Mineral Collecting*, 1994: 118, 156, 197 & 226.

### 4795. — Latin & French, 1719 [Collection catalog].

[Latin title page reads, in red:] Elenchus | [in black:] Tabularum, | [in red:] Pinacothecarum, | [in black:] At Que | [in red:] Nonnullorum Cimeliorum, | [in black:] In Gazophylacio | [in red:] Levini Vincent. | [in black, ornament] | [in red:] Harlemi Batavorum, | [in black:] Sumptibus Auctoris. | [rule] | [in red:] CIO IO CC XIX.

[FRENCH TITLE PAGE READS:]

[In red:] Description Abregée | [in black:] Des | [in red:] Planches, | [in black:] Qui Representent | [in red:] Les Cabinets | [in black:] & quelques-unes des Curiosités, | Contenus dans le | [in red:] Theatre Des Merveilles | [in black:] De La Nature | De | [in red:] Levin Vincent. | [in black, ornament] | [in red:] A Harlem, | [in black:] Aux Depens De L'Auteur. | [rule] | [in red:] MDCXIX.



ELENCHUS TABULARUM, 1719

4°:  $\pi^3$  \*4 A-G<sup>4</sup> H<sup>2</sup>; 37 $\ell$ .; [22], 1-52 p., 9 leaves of plates (8 folded). PAGE SIZE: 247 x 196 mm.

CONTENTS: [2 pgs], Latin title page, verso blank.; [2 pgs], French title page, verso blank.; [1 pg], Dedication.; [1 pg], Blank.; [5 pgs], "Praefatio."; [2 pgs], "Monsieur ..."; [1 pg], Blank.; [6 pgs], "... Explicatio Auctoris | Tabulae Aeneae, | Repraesentantis, | Gazophylacium."; | [2 pgs], "Ejusdem Auctoris | Epigramma | ..."—signed Romanus de Hooge, J.U.D.; 1-48, Text.; 49-52, "Libri Latini, &c."

PLATES: Identical to those used in the author's *Wondertooneel* (Amsterdam, 1706–15) [which see above].

RARE. Published four years after the completion of the *Wondertooneel* [which see previous item], this work has the flavor of a sale prospectus for collection. Vincent was coming to the end of his life, and perhaps to disperse information about his collections to a larger audience, he includes a general description of the cabinet, translated from the Dutch into French and Latin from the first part of the *Wondertooneel* (Amsterdam, 1706). Interspersed throughout are reissues of the nine finely engraved plates that accompanied the earlier work.

Vincent's effort did not bring forth a buyer however, and after his death his widow kept managing the collection. In 1730 she showed the cabinet to GERSAINT, who was pleasantly surprised by the range, quality, and perfection of the collection. Sometime thereafter, after difficult negotiations, it was sold to P. BOUT. When Bout died in 1779, the collection was dispersed at auction.

REFERENCES: Engel, *Dutch Zoological Cabinets*, 1986: no. 1603. • *Freilich Sale Catalog*: no. 538. • Murray,

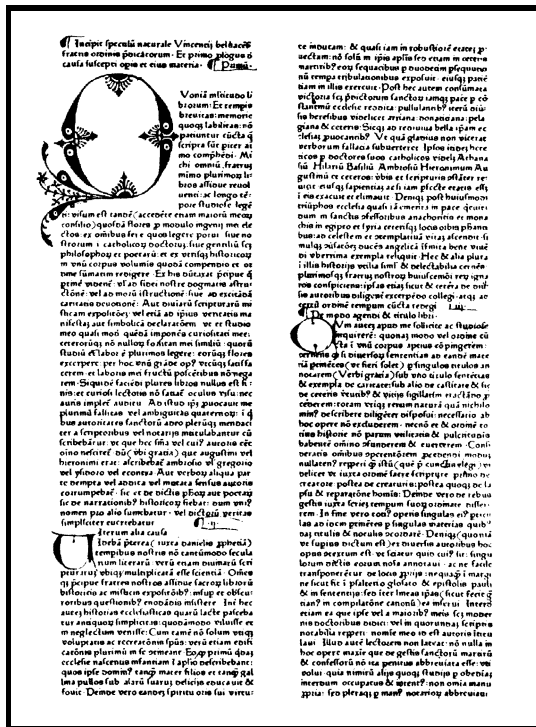


Museums, 1904: 3, 253.

**VINCENT, OF BEAUVAIS.** (BORN: 1190?; DIED: Beauvais, France?, 1264?) *French dominican & encyclopedist.*

Little is known of Vincent de Beauvais' personal history. It is thought that he joined the Dominicans in Paris shortly after 1218, becoming subprior of the Dominican monastery of Beauvais by 1246. He was connected with the royal family being librarian and tutor to Louis IX, and tutor to his sons. With the exception of visits to Louis IX at Royaumont, he spent all his religious life in the monastery at Beauvais. A man of industry, Vincent undertook to write a systematic and comprehensive treatment of all branches of human knowledge.

REFERENCES: Bourgeat, *Etudes sur Vincent de Beauvais*, Paris, 1856. • *Biographie Universelle*: 43, 539-43. • *Dictionary of the Middle Ages*: 12, 453b-455b [by G. Guzman]. • *Encyclopaedia Britannica*, 11th edition. • LKG: 280. • *Nouvelle Biographie Générale* (Hoefler). • Sarton, *Introduction*, 1928-52: 2, pt. 2, 929-32. • Tournon, *Hist. des hommes illustres de l'ordre de saint Dominique; Revue des quest. hist.*, Paris, 1875. • Zischka, *Allgemeines Gelehrten-Lexikon*, 1961: 670.



SPECULUM NATURALE, 1475 (LEAF 1/2R)

4796. — Latin, 1475 [First edition].

*Speculum Naturale* ... [Strassburg, The R-Printer (Adolf Rusch), not after 1476].

2 vols. [VOL 1] 2°: [1-2<sup>10</sup> 3<sup>8</sup> 4-12<sup>10</sup> 13<sup>8</sup> 19<sup>10</sup> 20<sup>8</sup> 21-25<sup>10</sup> 26-30<sup>10</sup> 31-32<sup>8</sup> 33-38<sup>10</sup> (unsigned; 1/1 and 38/10 blank); 370ℓ.; no pagination, foliation or signatures. Signatures in manuscript are recorded in the British

Library copy as follows: a-b<sup>10</sup> c<sup>8</sup> d-m<sup>10</sup> n<sup>8</sup> o-t<sup>10</sup> v<sup>8</sup> x-z<sup>10</sup> 2<sup>10</sup> 3<sup>10</sup> 4<sup>10</sup> A-E<sup>10</sup> F-G<sup>8</sup> H-N<sup>10</sup>. [VOL 2] 2°: [1<sup>10</sup> 2-14<sup>10</sup> 15<sup>6</sup> 16<sup>8</sup> 17-33<sup>10</sup> 34-35<sup>8</sup>] (unsigned; 35/8 blank); 328ℓ.; no pagination, foliation or signatures. Signatures in manuscript are recorded in the British Library copy as follows: aa<sup>8</sup> bb-oo<sup>10</sup> pp<sup>6</sup> qq<sup>8</sup>; AA-QQ<sup>10</sup> RR-SS<sup>8</sup>. 698 leaves total between the two vols. Printed in two columns, type 100, 66 lines, with 3 to 12 line spaces left blank for capitals. PAGE SIZE: 470 x 309 mm.

CONTENTS: [VOL 1] 1/1 (=1), Blank.; 1/2r (=2r), "Incipit speculū naturale Vincentij beluacei | fratris ordinis p̄dicatorum. Et primo plogus d' | causa suscepti opis et eius materia. Primū. | [Q12]Voniā ml'titudo li | brorum: Et tempis | breuitas memorie | quoq; labilitas: nō | patiuntur cūcta q̄ | scripta sūt piter aī | mo cōm̄pēdi. Mi | chi omniū fratru | mīplurimoq; li= | broz assidue reuol | uenti: ac longo tē= | pore studiosē legē | ti: visum est tandē (accedēte etiam maiorū meoq; | consilio) quosdā flores p̄ modulo ingenij mei ele | ctos: ex omibz fere quos legere potui.sive no | strorum .i. catholicorū doctorū: siue gentiliū scz | philosophorū et poetarū: et ex vtriusq; historicoz | in vnū corpus volumis quodā compendio et or | dine sūmatim redigere ..."; 1/6r (=6r), Table.; 3/2v (=22v), col. 1: "De innoatione mundi et luminariū celi. cvi."; 3/3r (=23r), "De diuersis mudi acceptionibus. Ex | libro qui dicitur imago mundi."; 38/9v (=369v), col. 2, line 12: "quo pacto simul omēs eo quo venerant agmine | redeunt."; 38/10 (=370), Blank.

[VOL 2] 1/1r (=1r), Table.; 1/9r (=9r), "ij. ¶ De opere sextē diei. Et primo de anima | libus. Guillerinus de conchis. | [P]Iscibus itaq; et | auibz effectu | superioz ex aq | creatis: ..."; 35/7v (=327v), line 24, END: "... | Hec que iam dicta sunt de antiq̄ et ad= | uentu iudicis:dieq; iudicij de bonoz remunera= | tione malorumq; damnatione breuiori hic stilo | perstricta sunt. sed latiore in fine speculi hysto= | rialis. ppatescunt. Amen."; 35/8 (=328), Blank.

EDITIO PRINCEPS. Very rare. Printed by Adolf Rusch in the Strassburg print shop of Johann Mentelin [see notes below], the date of this first edition of *Speculum Naturale* (usually given as "not after 1478") was revised according to a purchase date found in the copy of the library of the Institution of Electrical Engineers, London. It forms two volumes of the author's *Speculum Maius*, which in a complete set of all four parts, is the largest incunabula known, consisting of seven enormous folio volumes, often found bound in ten.

Written in the mid-thirteenth century, the *Speculum Maius* is the greatest and most comprehensive of all the encyclopedias generated in the Middle Ages. It records a very complete overview of all the classical and ecclesiastical knowledge and information available to late medieval man. According to the original plan the work was divided into four main parts dealing respectively with nature, doctrine (science), morality and history (*Speculum Naturale*, *Doctrinale*, *Morale*, *Historiale*). The text of each of these sections consists of quoted extracts (some of them very long) from a large number of Latin, Greek, Arabic and Hebrew writings (some 450 authors represented). It is a superior effort over earlier, similar encyclopedias, due to Vincent's access to a larger, better library than other compilers. However, this compilation was more remarkable for its size than for its quality. Vincent did not take the time to assimilate his material into an organic text, instead he quotes from documents available to him without adding



## VINCENT, OF BEAUVAIS

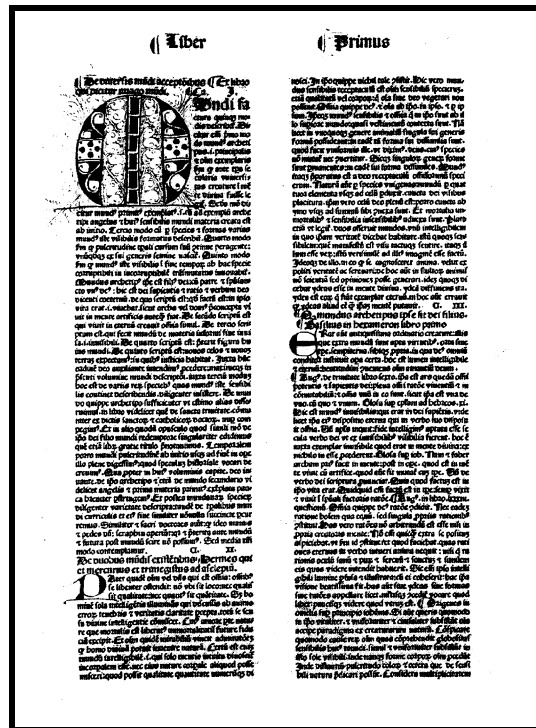
anything new or even applying a commentary to explain contradictions. The task was immense, and must have required a long time to compile. Vincent carefully quotes passages and assigns the extracts to their proper authors. During his lifetime Vincent was able to complete all the volumes with the exception of the *Speculum Morale*, which was written between 1310 and 1325. Yet as it was a part of the original plan, this section has been included in every printed edition of the *Speculum Maius*.

For the purposes of this work the *Speculum naturale* is the section of interest. It is organized in the form of a commentary on the first chapter of Genesis, and comprises a prologue and 32 books (with a total of 3,718 chapters). It is printed in two large folio volumes, and the subjects treated include geography, geology, mineralogy, agriculture, botany, astronomy, birds, animals, anatomy, physiology, and psychology. All of which are extensively discussed in an order suggested by the Biblical account of the creation. Book 8 describes precious and semiprecious stones in the form of a lapidary, based on the theories of Aristotle and Ibn Sīnā and influenced by Albertus Magnus. Book 15 covers Astronomy, Astrology, The Seasons, Temporal Divisions of the Liturgical Year; Book 28, Human Anatomy; Book 31, Human Reproduction; Book 32, Geography, World History.

**Adolf Rusch.** (BORN: Ingweiler, Germany, ; DIED: Strassburg, Germany, 1479) *German printer.* German printer. Rusch is also known as the "R-Printer," a modern nickname derived from the peculiar majuscule R he used in his publications. Rusch married Johann Mentelin's daughter Salome, and inherited the family printing business in 1479. During his father-in-law's life, Rusch may have worked partly for him and partly as an independent. The print business was in turn succeeded to by Martin Flach.

REFERENCES: Aiken, P., *The influence of the 'Speculum Majus' of Vincent of Beauvais on the works of Chaucer*, Ph.D. dissertation, Yale University, 1934. • Aiken, P., "Vincent of Beauvais and Chaucer's Knowledge of Alchemy," *Studies in Philology*, 12 (1944), 371-9. • Aiken, P., "Vincent of Beauvais and dame Pertelote's knowledge of medicine," *Speculum*, 10 (1935), 281-7. • BL: [IC 682]. • BMC XV: 1, 64 [IC 682]. • Collison, *Encyclopaedias*, 1966: 60-2. • Copinger, *Hain's Repertorium, Supplement*, 1898-1902: nos. 6253 & 6256. • Creutz, R., "Die Medizin im 'Speculum maius' des Vincentius von Beauvais," *Sudhoffs Archiv*, 31 (1938), 297-313. • Goff: V-292. • Klebs, *Incunabula Scientifica*, 1938: no. 1036.1. • LKG: III 11. • Meyer, H., "Ordo rerum und Registerhilfen in mittelalterlichen Enzyklopädiehandschriften," *Frühmittelalterliche Studien*, 25 (1991), 315-39. • Oates, *Cambridge 15th Century Books*, 1954: no. 106. • Osler, *Incunabula Medica*, 1923: no. 138. • Paulmier-Foucart, M., "Une des tâches de l'encyclopédisme: intituler, les titres des chapitres du 'Speculum naturale' de Vincent de Beauvais," in: Picone, M. [ed.], *L'Enciclopedia del medioevo*, Ravenna 1994, 147-62 [Memoria del Tempo, vol. 1]. • Polain, *Catalogue*, 1932: no. 3947. • Rieu, A., *Quelques mots sur la médecine au Moyen Age d'après le 'Speculum maius' de Vincent de Beauvais*, Paris, 1893. • Schuler, S., "L'encyclopédie médiévale en tant que véhicule de l'écriture pragmatique - le cas de réception et de transmission du 'De architectura' de Vitruve dans le 'Speculum maius' de Vincent de Beauvais," *Vincent of Beauvais Newsletter*, 20 (1995), 8-12. • Stadler, H., "Albertus Magnus, Thomas von Chantimpré und Vincenz von Beauvais," *Natur und Kultur*, 4 (1906), 86-90. • Thach:

no. 11. • Wellcome Catalog (Books): 1, no. 6632. (Rusch) BMC XV: 1, 59-60.



SPECULUM NATURALE, 1481

4797. 2nd edition, 1481: *Speculum Naturale* ... [Strassburg, Printer of the 'Legenda aurea', about 1481].

2°: [18]l., [1], 300l

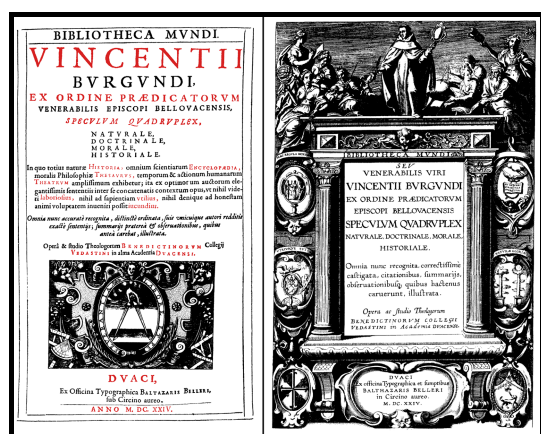
VERY RARE. In the preparation of this colossal work, he was helped in the purchase of books by his royal patron Louis IX. The general title of Vincent's work is "Speculum Majus". The first part, "Speculum naturale", contains thirty-two books and 3718 chapters, and treats of theology, psychology, physiology, cosmography, physics, botany, zoology, mineralogy, agriculture. Book IX, chap. 40, contains an early reference to the use of the magnet for the purpose of navigation. The edition of the "Speculum naturale" in the Wheeler collection in the Library of the American Institute of Electrical Engineers (New York) was printed in Strasburg, probably in the year 1468. It is in two royal folio volumes containing 694 double column pages of 66 lines to the column. Like other incunabula, it was published without title-page, folio-number or printer's imprint. The second part, "Speculum doctrinale", in seventeen books and 2374 chapters, treats of logic, rhetoric, poetry, geometry, astronomy, instincts, passions, education, industrial and mechanical arts, anatomy, surgery, medicine, jurisprudence, and administration of justice. The third part, "Speculum historiale", in thirty-one books and 3793 chapters, brings the history of the world to A.D. 1250. A fourth part, "Speculum morale", appears in some additions, but its authenticity is questioned, Daunou (1761- 1840) affirming that it cannot be attributed to Vincent. The "Speculum majus" contains 80 books, divided into 9885 chapters, figures which give some idea of the magnitude of the work accomplished by the Dominican Friar in the first half of the thirteenth century. Other works of Vincent of Beauvais are: "De eruditione filiorum regalium"; "Tractatus consolatorius de

morte amici", addressed to St. Louis on the death of one of his sons in 1260.

REFERENCES: BMC XV: 2, 10 & 3, 860 [IC 1252; Basel, Amerbach?]. • Copinger, *Hain's Repertorium, Supplement*, 1898-1902: no. 6257. • Goff: V-293. • Hain, *Repertorium Bibliographicum*, 1826-38: HC no. 6257. • Hunt Botanical Catalog: no. 227 ?? . • Klebs, *Incunabula Scientifica*, 1938: no. 1036.2 [Nuremberg, 1486]. • Polain, *Catalogue*, 1932: no. 3948. • Proctor, *Index*, 1898-1906: no. 2056 [Nuremberg, Koberger, 1486]. • Voulliéme (Berlin).

**4798. 3rd edition, 1494:** *Speculum Naturale* ... Venice, Hermannus Liechtenstein, 15 May 1494.

REFERENCES: BMC XV: 5, 359 [IB 22009]. • Goff: V-294. • Hain, *Repertorium Bibliographicum*, 1826-38: HC 6241. • Klebs, *Incunabula Scientifica*, 1938: no. 1036.3. • Oates, *Cambridge 15th Century Books*, 1954: no. 1893. • Polain, *Catalogue*, 1932: no. 3937 (III). • Proctor, *Index*, 1898-1906: no. 4797.



BIBLIOTHECA MVNDI, 1624

#### 4799. — Latin, 1624.

[Contained within a double rule box, in black:] Bibliotheca Mvndi. | [in red:] Vincentii [in black:] Bvrgvndi | [...2 lines of titles and memberships...] | [in red:] Specvlvm Qvadrplex, | [in black:] Natvrle, | Doctrinale, | Morale, | Historiale. | In quo totius naturæ [in red:] Historia, [in black:] omnium scientiarum [in red:] Encyclopædie, | [in black:] moralis Philosophiæ [in red:] Thesavrvs, [in black:] temporum & actionum humanarum | [in red:] Theatrvm [in black:] amplissimum exhibetur; ita ex optimorum auctorum ele- | gantissimis sententiis inter se concatenatis contextum opus, vt nihil vide- | ri [in red:] laboriosius, | [in black:] nihil ad sapientiam [in red:] vtilius, [in black:] denique ad honestam animi voluptatem inuentiri possit [in red:] iucundius. | [in black:] Omnia nunc accuratè recognita, distinctè ordinata, suis vnique autori redditis | exactè sententijs; summarijs præterea & obseruationibus, quibus | antea carebat, illustrata. | Operâ & studio Theologorum [in red:] Benedictinorum [in black:] Collegij | [in red:] Vedastini [in black:] in alma

Academia [in red:] Dvacensi. | [large engraved rectangular vignette] | [in red:] Duaci, | Ex Officina Typographica Baltazaris Belleri, | sub Circino aureo. | [rule] | [in red:] Anno M. DC. XXIV.

[ENGRAVED TITLE PAGE READS:]

[Within a heavily illustrated border, the top compartment reads:] Bibliotheca Mvndi | Sev | Venerabilis Viri | Vincentii Bvrgvndi | Ex Ordine Prædicatorvm | Episcopi Bellovacensis | Specvlvm Qvadrplex | Natvrle, Doctrinale, Morale, | Historiale. | Omnia nunc recognita, correctissimè | castigata, citationibus, summarijs, | obseruationibus; quibus hactenus | caruerunt, illustrata. | Opera ac studio Theologorum | Benedictinorum Collegij | Vedastini in Academia Dvacensis. [The bottom compartment reads:] Dvaci | Ex officina Typographica et sumptibus | Balthazaris Belleri | in Circino aureo. | M. DC. XXIV.

4 vols. [VOL 1] 2°: ★<sup>8</sup> A-Kkkk<sup>6</sup> LlIII<sup>8</sup> a-c<sup>6</sup> d<sup>7</sup>; ??ℓ.; [16] p., cols. 1-2480, [50] p., title page in red and black, added engraved title page. [VOL 2] 2°: π<sup>1</sup> A-TtUuu<sup>8</sup> a-b<sup>6</sup> c<sup>7</sup>; ??ℓ.; [2] p., cols. 1-1592, [38] p. [VOL 3] 2°: [VOL 4] 2°:

RARE. Volumes: (1) *Speculum naturale*, (2) *Speculum doctrinale*, (3) *Speculum morale*, and (4) *Speculum historiale*.

Facsimile reprint, 1964-5: *Speculum quadruplex, sive, Speculum maius*. Graz, Akademische Druck- und Verlagsanstalt, 1964-65. 4 vols. [AzU Main BX1749 .V55]

REFERENCES: BL. • NUC.

#### VINCENTIUS BELLOVACENSIS.

See: Vincent, Of Beauvais.

**VIOLA, Carlo Maria.** (BORN: Zara, Dalmatia, 1855; DIED: 1925) *Italian mineralogist*.

Viola's father was a sea captain. He was educated in Dalmatia, Istria, Graz, Vienna and Rome, graduating from the last as a civil engineer in 1880. For several years, with the help of a scholarship from the Italian Corps of Mines, he attended the Mining Academy in Berlin. Returning to Italy, he was appointed geologist-engineer, working on irrigation schemes and geological maps. In 1900 he was appointed chief engineer of the Iglesias mining district and director of the school of mines there. In 1905, he was appointed professor of mineralogy at the University of Parma. For many years he spent pleasurable summers studying crystallography with P. GROTH in Munich and V. GOLDSCHMIDT in Heidelberg.

REFERENCES: *Mineralogical Magazine*: 21 (1927), no. 117, 255. • Poggendorff: 4, 1569-70 & 5, 1312-3 & 6, ??? . • Sarjeant, *Geologists*, 1980: 3, 2340. • *Zeitschrift der Kristallographie*: 64 (1926), 260-4 [by M. Ferrari].

**4800. German edition, 1904:** *Grundzüge | der | Kristallographie | von | Prof. C.M. Viola | Bergingenieur, Staatsgeologe Und | Dozent Der Mineralogie In Rom | Mit 453 Abbildungen Im Text | Leipzig | Verlag Von Wilhelm Engelmann | 1904.*

8°: x, 389 p. VERY SCARCE.

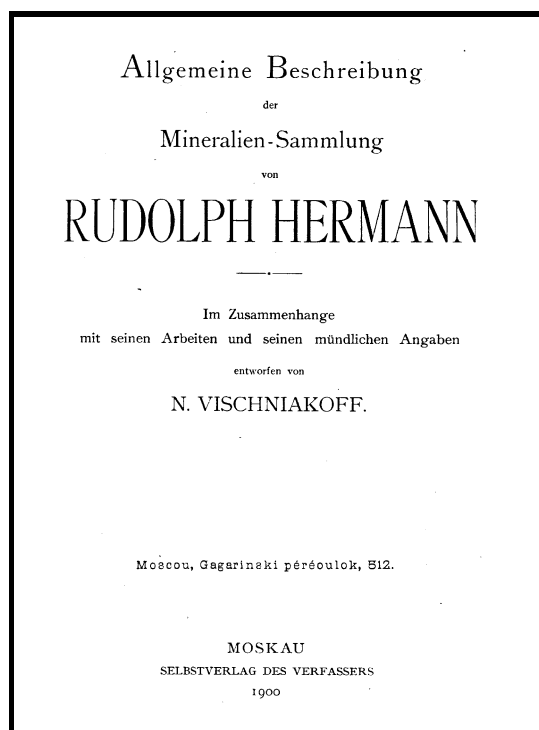
REFERENCES: Dana's 7th (Bibliography): 82.

#### 4801. — Italian, 1920.

Carlo Viola | Prof. ord. di mineralogi nella R.

Univresità di Parma | [rule] | Trattato | di |  
Cristallografia | [rule] | Con 591 incisioni nel  
testo dagli originali dell'Autore | [Printer's device,  
incorporating the initial "H"] | Ulrico Hoepli |  
Editore-Libraio Della Real Casa | Milano | [rule]  
| 1920.

8°: VERY SCARCE.



ALLGEMEINE BESCHREIBUNG, 1900

# VISCHNIAKOFF, Nikolai Petrovich.

**4802. — German, 1900** [Collection catalog].

Allgemeine Beschreibung | der | Mineralien-  
Sammlung | von | Rudolph Hermann | [rule] |  
Im Zusammenhange | mit seinen Arbeiten und  
seinen mündlichen Angaben | entworfen von |  
N. Vischniakoff. | Moskau | Selbstverlag des  
Verfassers | 1900.

8°: 254 p., frontispiece (portrait of R. Hermann).

RARE. Descriptive catalog of the mineral  
collection formed by the Russian(?) Rudolph Hermann  
[see note below].

**VOGEL, Rudolph Augustin.** (BORN: Erfurt,  
Germany, 1 May 1721; DIED: Göttingen, Germany, 5  
April 1774) *German physician & naturalist.*

Vogel studied at Erfurt, Leipzig and Berlin, receiving  
his medical degree from Erfurt in 1747. In 1753, he became  
a professor of medicine at the University of Göttingen.

REFERENCES: ADB: **40**, 123-4. • DBA: I 1311, 419-430;  
II 1343, 423-425. • Hirsch, *Biographisches Lexikon*, 1884-  
8: **5**, 781-2. • Hirsching, *Historisch-literarisches Handbuch*,  
1794-1815. • Lambrecht & Quenstedt, *Catalogus*, 1938: 445.  
• Meusel, *Verstorbenen Deutschen Schriftsteller*, 1802-16: **14**,  
269-72. • Poggendorff: **2**, col. 1217 & **7a**, 733-4. • Wagenitz,  
*Göttinger Biologen*, 1988: 184-5. • WBI.

**4803. — Latin, 1756.**

De incrustato agri Gottingensis commentatio phys.  
chem. Göttingen, 1756.

8°: VERY SCARCE.

REFERENCES: LKG: XIV 147.

**4804. — Latin, 1762.**

Terrarvm Atqve Lapidvm | Partitio | [rule] |  
Dispytatio Medica Solemnis | Qvam | In Academia  
Georgia Avgvsta | Consensv Inclvti Ordinis Medici  
| Praeside | D. Rvdolfo Avgvstino | Vogel |  
[...3 lines of titles and memberships...] | D. VI. M.  
Mart. MDCCLXII. | Pro Svmmis In Arte Medica  
Honoribvs | Legitime Conseqvendis | Pvblice E  
Cathedra Defendet | Avg. Frid. Christ. Hempel |  
Neo-Branenbvrgo-Megapolit. | [rule] | Gottingae |  
Literis Schvlzianis, cvrante F.A. Rosenbvsch.

4°:  $\pi^3$  A-E<sup>4</sup> F<sup>2</sup>; 25 $\ell$ .; [6], [1]-54 p.

CONTENTS: [2 pgs], Title page, verso blank.; [4 pgs],  
Dedication to Adolpho Friderico IV.; [1]-54, Text.

VERY RARE. Dissertation dealing with the  
classification and nomenclature of minerals and rocks.  
The respondent was August Friedrich Christian Hempel  
[1737-?].

REFERENCES: BL: [T.955.(13.)]. • LKG: XII 59a.

**4805. — German, 1762** [First edition].

Practisches | Mineralsystem, | entworfen | von  
| D. Rudolf Augustin Vogel, | [...4 lines of titles  
and memberships...] | [ornament] | Leipzig, | verlegt  
Bernhard Christoph Breitkopf, | 1762.

8°: [8], [1]-518, [10] p.[\*]<sup>4</sup> A-Z<sup>8</sup> 2A-2J<sup>8</sup> 2K<sup>4</sup> 2L<sup>4</sup>;  
269 $\ell$ . PAGE SIZE: 196 x 112 mm.

CONTENTS: [2 pages], Title page, verso blank.;  
[6 pages], "Vorrede."— dated 1761, printer's device on  
last page.; [1]-18, "... Vorbereitung zur Mineralogie."; [19],  
"Erste Abtheilung. Von den Erden."; [20], Blank.; [21]-86,  
Text.; [87], "Zweyte Abtheilung. Von den Steinen."; [88],  
Blank.; [89]-192, Text.; [193], "Dritte Abtheilung. Von den  
Versteinerungen."; [194], Blank.; [195]-258, Text.; [259],  
Vierte Abtheilung. Von den Salzen."; [260], Blank.; [261]-  
302, Text.; [303], "Fünfte Abtheilung. Von entzündlichen  
Körpern."; [304], Blank.; [305]-344, Text.; [345], "Sechste  
Abtheilung. Von Metallen und Halb-Metallen."; [346],  
Blank.; [347]-518, Text.; [9 pages], "Regisiter."; [1 page],  
"Druckfehler."

SCARCE. He introduced new methods of analysing  
mineral waters.

REFERENCES: BL: [990.f.3.]. • *Commentarii Lipsiæ*:  
Suppl. **2**, Dec. 2, 307. • Gatterer, *Mineralogischen Literatur*,  
1798-9: **1**, 51. • *Halle gelehrte Zeitung*: 1776, 295. • *Leipziger  
gelehrte Zeitung*: 1776, 625. • LKG: XII 58. • Schröter's  
*Journal für die Literatur*: **3**, 188. • *Vogel's Neue Medicinische  
Bibliothek*: **5**, 143.

**4806. 2nd edition, 1776:** *Practisches Mineralsystem*, entworfen von D. Rudolf Augustin Vogel ... Zweyte vermehrte und verbesserte Ausgabe. Leipzig, verlegt Bernard Christoph Breitkopf und Sohn, 1776.

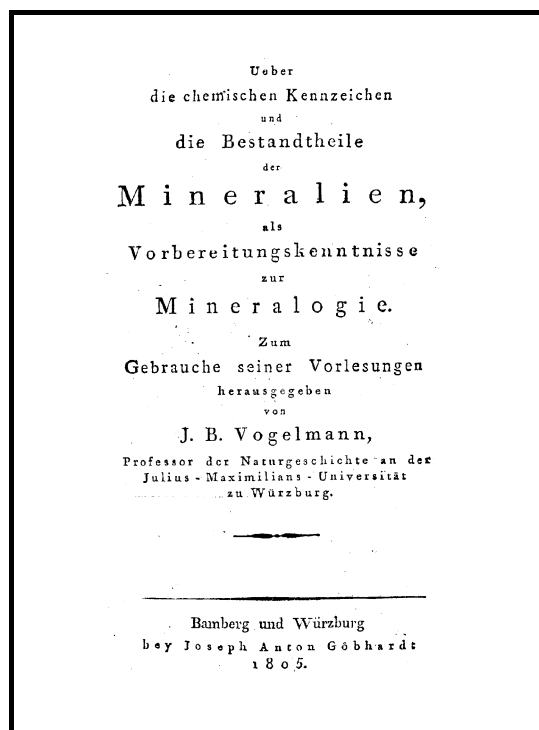
8°: [16], 582, [10] p. SCARCE.

REFERENCES: Beekman, *Systematische Mineralogie*, 1906: 88. • BL: [no copy listed]. • Cobres, *Deliciae Cobresianæ*, 1782: 2, 708. • *Commentarii Lipsiæ*: Suppl. 2, Dec. 2, 307. • Ferguson, *Bibliotheca Chemica*, 1906: 2, 516-7. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 51. • LKG: XII 58. • Schröter's *Journal für die Liebhaber*: 3, 188.

**VOGELMANN, Johann Baptista.**

Professor of natural history at the Julius-Maximilians University in Würzburg.

REFERENCES: Pogendorf: 2, col. 1222.



UEBER, 1805

**4807. — German, 1805.**

Ueber | die chemischen Kennzeichen | und | die Bestandtheile | der | Mineralien, | als | Vorbereitungskenntnisse | zur | Mineralogie. | Zum | Gebrauche seiner Vorlesungen | herausgegeben | von | J.B. Vogelmann, | [...3 lines of title and memberships...] | [ornate rule] | [tapered rule] | Bamberg und Würzburg | bey Joseph Anton Göbhardt | 1805.

8°:  $\pi^6$  (1)-(9)<sup>8</sup> (10)<sup>2</sup>; 98 $\ell$ .; [i]-xii, [1]-184 p. PAGE SIZE: 195 x 110 mm.

CONTENTS: [i-ii], Title page, verso blank.; iii-xii, "Vorerinnerung."—dated 4 November 1804.; [1]-184, Text.

RARE. The text is a discussion of the chemical characters and constituents of minerals and their

relationships in any correct system of mineralogy. The author notes that all bodies are made up of chemicals, and that therefore any correct system of minerals will be based upon their chemistry. Considering the date of publication, this was a remarkable insight on the part of Vogelmann.

REFERENCES: LKG: XI 29.

**VOGELSANG, Hermann Peter Joseph.** (BORN: Minden, The Netherlands, 11 April 1838; DIED: Delft, The Netherlands, 6 June 1874) *Dutch geologist & petrologist.*

**4808. — German, 1867.**

Philosophie Der Geologie | Und | Mikroskopische Gesteinsstudien | Von | Dr. H. Vogelsang, | [...2 lines of titles and memberships...] | [rule] | Mit 10 Kupfertafeln In Farbendruck. | [rule] | [tapered rule] | Bonn, | Verlag Von Max Cohen & Sohn. | 1867.

8°: [8], [1]-229 p., 10 color plates. Each plate accompanied by guard sheet with descriptive text.

CONTENTS: [2 pgs], Half title page, "Philosophie Der Geologie | Und | Mikroskopische Gesteinsstudien," verso blank.; [2 pgs], Title page, "Das Uebersetzungsrecht behalten..."; [1 pg], Dedication.; [1 pg], Blank.; [2 pgs], "Inhaltsverzeichnis."; [1]-229, Text.; [1 pg], "Druckfehler."; [At end], 10 plates with descriptive text.

VERY SCARCE. A study of the minerals that make up rocks as viewed through the microscope.

REFERENCES: Carpenter, *Microscope and Its Revelations*, 1883: 2, p. 315. • NUC.

**4809. — German, 1875.**

Die | Krystalliten | von | Hermann Vogelsang. | Nach Dem Tode Des Verfassers | herausgegeben | von | Ferdinand Zirkel. | [rule] | Mit 16 Tafeln | [rule] | Bonn, | Verlag Von Max Cohen & Sohn. | 1875.

8°:  $\pi^2$  1-118; 90 $\ell$ .; [4], [1]-175, [1] p., 16 plates (partly colored).

CONTENTS: [2 pgs], Title page, verso "Alle Rechte vorbehalten."; [1 pg], "Inhaltsübersicht."; [1 pg], Blank.; [1]-173, Text.; [174]-175, "Erklärung der Tafeln."; [1 pg], "Bonn, Druck von Carl Georgi."; [At end], 16 plates.

SCARCE. Textbooks—crystallography. Edited by FERDINAND ZIRKEL after the death of Vogelsang.

Contents: I. Einleitung. II. Schwefelkrystalliten. III. Krystalliten in künstlichen Gläsern. IV. Das Eis. V. Der kohlensaure Kalk. VI. Krystalliten in Silikatgesteinen. VII. Anhang. Die Grundmasse der Porphyrgesteine.

**VOIGT, Johann Carl Wilhelm.** (BORN: 20 February 1752; DIED: 1 January 1821) *German geologist.*

Studied under Werner at Freiberg. When Voigt returned to Weimar, he became acquainted with Goethe, with whom he developed a lifelong friendship. Through Voigt, Goethe learned mineralogy and the theories of Werner.

REFERENCES: ADB: 40, 205. • *Biographie Universelle*: 44, 39-40. • DBA: I 1314, 169-172; II 1346, 67-68. • Hamberger & Meusel, *Gelehrte Teutschland*, 1796-1834. • Pogendorf: 2, cols. 1225-6. • WBI.

**4810. — German, 1781-5** [First edition].

Mineralogische Reisen durch des Herzogthum Weimar und Eisenach und einige angränzende Gegenden. In Briefen von Joh. Carl. Wilhelm Voigt ... Dessau, Auf Kosten der Verlagskasse, 1781 & Weimar, C.L. Hoffmanns, 1785.

2 vols. [VOL 1: 1781] 8°. [VOL 2: 1785] 8°.

VERY SCARCE. Voigt was commissioned to tour the duchy of Weimar and describe it mineralogically. The result of this research was *Mineralogische Reisen durch des Herzogthum Weimar und Eisenach*, which Goethe arranged to have publish.

REFERENCES: Agassiz, *Bibliographia Geologiae*, 1848-54: 4, p. 502. • BL: [990.f.19.]. • *Katalog Bergakademie Freiberg*, 1879: p. 690.

**4811. 2nd edition, 1794:** Mineralogische Reisen durch des Herzogthum Weimar und Eisenach und einige angränzende Gegenden. In Briefen von Joh. Carl. Wilhelm Voigt ... Leipzig, 1794.

8°: VERY SCARCE.

REFERENCES: BL: [1651/1985.]. • Hoover Collection: no. 836. • LKG: XIV 238.

**4812. — German, 1785.**

Drey Briefe über die Gebirgs-Lehre für Anfänger und Unkundige von Johann Carl Wilhelm Voigt .... Weimar, Zu finden in der Hoffmannischen Buchhandlung, 1785.

8°: 62 p. VERY SCARCE.

REFERENCES: LKG: XIII 164.

**4813. 2nd edition, 1786:** Drey Briefe über die Gebirgs Lehre für Anfänger und Unkundige. Zweyte ... vermehrte Auflage. Weimar, C.L. Hoffman, 1786.

Small 8°.

VERY SCARCE. Enlarged and improved second edition. This is one of Voigt's introductory texts to the science of geology.

REFERENCES: BL: [B.247.(2.)]. • LKG: XIII 164.

**4814. — German, 1787** [First edition].

Erklauendes Verzeichniss einer Sammlung von Gebirgsarten nach der Klassifikation in Voigt's drei Briefen über die Gebirgslehre. Leipzig, 1787.

8°: VERY SCARCE.

REFERENCES: LKG: XIII 165a.

**4815. 2nd edition, 1792:** Erklärendes Verzeichniss seines neuen Kabinetts von Gebirgsarten. Weimar, Im verlag des industrie-comptoirs, 1792.

8°: 48 p. VERY SCARCE.

REFERENCES: LKG: XIII 166b.

**4816. 3rd edition, 1797:** Johann Carl Wilhelm Voigts ... Erklärendes Verzeichniß seiner neuesten Cabinets von Gebirgsarten. Dritte verbesserte Auflage. Weimar, Im Verlage des Industrie=Comptoirs. (Schleusingen, gedruckt bei Karl Gottlob Hoffmann), 1797.

8°: [1]-46 p.

CONTENTS: [1]-2], Title page, verso blank.; [3]-6, "Vorerinnerung."; [7]-8, [Introduction].; 8-46, Text.

RARE. Erste Classe. Uranfängliche Gebirgsarten, S. 8-23. — Zweyte Classe. Flözgebirgs=Arten, S. 23-36. — Dritte Classe. Vulkanische Gebirgsarten, S. 36-42. — Vierte Classe. Aufgeschwemmte Gebirgsarten, S. 43-46.

**4817. — German, 1792.**

Generaltabelle über sammtlicher jezt bekannte Gebirgsarten nach Voigt's praktischer Gebirgskunde. Weimar, 1792.

8°: VERY SCARCE.

REFERENCES: LKG: XIII 168d.

**4818. 2nd edition, 1797:** Practische Gebirgskunde von Johann Karl Wilhelm Voigt. Mit einem Kupfer. Zweyte stark vermehrte Ausgabe. Weimar, Im Verlage des Industrie=Comptoirs. (Schleusingen, gedruckt bei Karl Gottlob Hoffmann), 1797.

8°: [i]-xix, [1]-285, [1] p., one plate.

CONTENTS: [i-ii], Title page, verso blank.; [iii]-x, "Vorrede."; xi-xix, "Classification der Gebirgsarten, in sofern sie jetzt bekannt sind."; [1]-212, Text.; [213]-266, "1. Anhang. Beytrag zu einem Verzeichnisse der durch innere Kraft hervorgehobenen Berge, Inseln und Landstriche."; 267-286, "II. Recension der vorigen Ausgabe dieser Schrift in der allg. Litteraturzeit. (Monath August 1794 No. 285). Mit Anmerkungen von dem Verfasser."

VERY SCARCE. Contents: I. Von den Gebirgsarten überhaupt. II. Von den uranfänglichen Gebirgen. III. Von den Flözgebirgen. IV. Von den Vulkanischen Gebirgen. V. Von den aufgeschwemmten Gebirgen. I. Anhang. Beytrag zu einem Verzeichnisse der durch innere Kraft hervorgehobenen Berge, Inseln und Landstriche. II. Recension der vorigen Ausgabe dieser Schrift in der allg. Litteraturzeit. (Monath August 1794 No. 285). Mit Anmerkungen von dem Verfasser.

**4819. — German, 1783** [First edition].

Mineralogische Beschreibung des Hochstifts Fuld und einiger merkwürdigen Gegenden am Rhein und Mayn. Dessau & Leipzig, Buchhandlung der Gelehrten, 1783.

8°: [12], 244, [16] p., engraved title page, one hand-colored folding map (510 x 420 mm.). VERY SCARCE.

REFERENCES: BL: [987.i.15.].

**4820. 2nd edition, 1794:** Mineralogische beschreibung des hochstifts Fuld und einiger merkwürdigen gegenden am Rhein und Mayn. Von Johann Carl Wilhelm Voigt ... Neue unveränderte Auflage. Leipzig, In der Gräffschen buchhandlung, 1794.

8°: [12], 244, [16] p., folding map. Title vignette.

RARE. Mineralogy-Germany.

REFERENCES: BL: [970.e.10.]. • LKG: XIV 288.

**4821. — German, 1787.**

J.C.W. Voigt's Mineralogische Reise von Weimar über den Thüringer Wald, Meiningen, die Rhönberge, bis Bieber und Hanau im herbst 1786. Leipzig, J.G. Müller, 1787.

8°: [2], 57 p.

VERY SCARCE. Voigt's geological studies of the Thuringian Forest and the Rhön are of special importance to the history of geology. After examining the outcrops of basalt and phonolite in the Rhön, Voigt became convinced of their volcanic origin, thus leading the author to vicious attacks upon the Neptunists and their chief proponent, Werner.

REFERENCES: BL: [972.g.21.]. • LKG: XIV 50.

**4822. — German, 1789-91.**

Mineralogische und bergmännische Abhandlungen. Herausgegeben von Johann Carl Wilhelm Voigt ... Leipzig, Im Verlage der Joh. Gottfr. Müllerischen Buchhandlung, 1789-91.

3 vols. VERY SCARCE.

REFERENCES: BL: [990.c.23.]. • Hoover Collection: no. 837.

**4823. — German, 1799.**

Kleine | mineralogische Schriften | von | Johann Carl Wilhelm Voigt, | [...8 lines of titles and memberships...] | [vignette] | Erster [-Zweiter] Theil. | [rule] | Mit einem Kupfer. | [tapered rule] | Weimar, | bey den Gebrüdern Sädicke | 1799 [-1800].

2 vols. [VOL 1] [i]-viii, [1]-239, [1] p., one folding plate (geological cross section), title vignette. [VOL 2] [4], [1]-228 p., one folding table (p. 106).

CONTENTS: [Vol 1] [i-ii], Title page, verso blank.; [iii], Dedication to Berginspector Emmerling.; [iv], Blank.; v-vi, "Vorbericht."—dated April 1799.; [vii]-viii, "Inhalt.;" [1]-239, Text.; [1 pg], "Verbesserungen.;" [At end], one plate.

[Vol 2] [2 pgs], Title page, verso blank.; [2 pgs], "Inhalt.;" [1]-228, Text.

VERY SCARCE. Voigt's collected writings on a wide variety of mineralogical and geological topics.

REFERENCES: BL: [990.a.29.]. • Hoover Collection: no. 835.

**4824. — German, 1802.**

Mineralogische Reise nach den Braunkohlenwerken und Basalten in Hessen, wie auch nach den Schieferkohlenwerken des Unterharzens. Weimar, 1802.

8°: 238 p.

VERY SCARCE. Mineralogy—Germany—Hesse.

Coal mines and mining—Germany—Hesse.

REFERENCES: BL: [445.a.33.]. • LKG: XIV 132.

**4825. — German, 1802-5.**

Versuch einer Geschichte der Steinkohlen, der Braunkohlen und des Torfes, nebst Anleitung, diese Fossilen kennen und unterscheiden zu lernen, sie aufzusuchen und anzuwenden. Weimar, Hoffmann, 1802-5.

2 vols. [VOL 1] 8°: xxiii, 307, [4] p. [VOL 2] [6], 197, [4] p., 3 folding engraved plates.

VERY SCARCE. Rare in complete two volume sets. Discussion and fundamental investigation of the formation and occurrences of brown and hard coal as well as one of the first comprehensive bibliographies on the subject. In the pre-petroleum age, coal was the energy source, and those nations that had large deposits became the major powers.

REFERENCES: BL: [967.i.14.]. • LKG: XVI 422. • Reichardt, *Bibliotheca Rerum Metallicarum*, 1857: I 141.

**4826. — German, 1792 [First edition].**

Praktische Gebirgskunde von Johann Carl Wilhelm

Voigt ... Weimar, Im Verlage des Industrie-comptoirs, 1792.

8°: 150, 10 p., 1 l. folding plates. VERY SCARCE.

**4827. 2nd edition, 1797:** Practische Gebirgskunde ... Zweyte stark vermehrte Ausgabe. Weimar, Schleusingen [printed], 1797.

8°: VERY SCARCE.

REFERENCES: BL: [7104.bb.34.].

**VOLGER, Georg Heinrich Otto.** (BORN: Luneburg, Hannover, Germany, 30 January 1822; DIED: Sulzbach, Germany, 18 October 1897) *German mineralogist & seismologist.*

In 1851, Volger taught at the cantonal school of Zurich. In 1856, he was appointed professor of mineralogy and geology at the Schenckenburg Museum at the University of Frankfurt-am-Main.

REFERENCES: Davison, *Founders of Seismology*, 1927: 123-6. • DBA: I 1315, 212-213; II 1347, 34-48. • Lambrecht & Quenstedt, *Catalogus*, 1938: 447. • Poggendorff: 2, cols. 1228-9, 3, 1399 & 4, 1577. • Sarjeant, *Geologists*, 1980: 3, 2346. • WBI. • *World Who's Who in Science*: 1727.

**4828. — German, 1854.**

Studien | zur | Entwicklungsgeschichte | der | Mineralien | als Grundlage | Einer Wissenschaftlichen Geologie Und | Rationellen Mineralchemie. | [rule] | Von | G.H. Otto Volger | [ornate rule] | Zürich, | Druck und Verlag von Fr. Schulthess. | 1854.

8°: xxvi, [1] errata, 548 p., one plate. SCARCE.

REFERENCES: Dana's 7th (Bibliography): p. 82.

**4829. — German, 1855.**

Die | Entwicklungsgeschichte | der Mineralien | der | Talkglimmer-Familie | und ihrer | Verwandten | sowie der durch dieselben bedingten | petrographischen und geognostischen Verhältnisse. | Von | G.H. Otto Volger. | [ornate rule] | Zürich, | Druck und Verlag von Fr. Schulthess. | 1855.

8°: 650 p. VERY SCARCE.

**4830. — German, 1855.**

Versuch | einer | Monographie Des Borazites. | Eine fassliche angewandte Darstellung | des | jetzigen Standes der Krystallogie | und ihrer neuesten Richtung. | Ein Beitrag | zur | Geschichte dieser Wissenschaft | und zur | Kenntniss der Steinsalz-Lagerstätten und ihrer Bildung. | Von | G.H. Otto Volger, | Ehrenmitglied des naturwissenschaftlichen Vereins in Lüneburg. | [rule] | Mit erläuternden Holzschnitten. | [rule] | Hannover. | Carl Rümpler. | 1855.

8°:

SCARCE. Published as volume one of the series, "Denkschriften | des | naturwissenschaftlichen Vereins | für das Fürstenthum Lüneburg | in | Lüneburg. | [rule] | Erster Band. | [rule] | Monographie des Borazites | von | G.H. Otto Volger, | Ehrenmitglied

## VOLMAR

des Vereins. | [rule] | Hannover. | Carl Rümpler. | 1855.”

### VOLKELT, Johann Gottlieb.

#### 4831. — German, 1775.

Historische | Mineralogie, | oder | Beschreibung | der Mineralien | und | Anzeigung | der Oerter, wo sie gefunden werden. | Für Anfänger. | [ornament] | [ornate rule] | Breslau und Lepzig, | bey Christian Friedrich Gutsch, 1775.

8°: )(4 A-O8 P4; 116ℓ.; [8], [1]-216, [8] p. PAGE SIZE: 168 x 102 mm.

CONTENTS: [2 pgs], Title page, verso blank.; [4 pgs], “Vorrede.”; [2 pgs], “Inhalt.”; [1]-216, Text.; [8 pgs], “Register.”

VERY SCARCE. Published anonymously, but attributed to Volkelt. In this introduction to mineralogy for the beginner, the author has relied upon the previous works of Wallerius, Henckel, Cartheuser, Woltersdorff and others for his information. He begins the text with discussions of earths, salts, hard-earths, stones including precious, common and figured, and metals. There is a short description of the merits and how to form a mineral cabinet for the reader. Then Volkelt continues with descriptions of the chemical nature and makeup of minerals. All the discussions are highly abbreviated due to the modest length of the book.

REFERENCES: BL: [954.a.27.]. • Hoover Collection: no. 841. • LKG: XII 206 & XIV 304.

#### 4832. — German, 1775.

M. Johann Gottlieb Volkelts, | [...3 lines of titles and memberships...] | Nachricht | von den | schlesischen Mineralien | und den Oertern, | wo dieselben gefunden werden. | [vignette] | [ornate rule] | Breslau und Leipzig, | bey Christian Friedrich Gutsch, 1775.

8°: )(8 A-H8; 72ℓ.; [16], [1]-123, [5] p. PAGE SIZE: 170 x 100 mm.

CONTENTS: [2 pgs], Title page, verso blank.; [1 pg], Dedication to Carl Abraham Freyherrn von Zeplitz.; [1 pg], Blank.; [4 pgs], Text of dedication, signed Johann Gottlieb Volkelt, 1 May 1775.; [6 pgs], “Vorrede.”—dated 1 April 1775.; [2 pgs], “Vorbericht.”; [1]-123, Text.; [4 pgs], “Register.”; [1 pg], Blank.

VERY SCARCE. A topographical study of the minerals found in Schlesia in Germany. In this important mining area a fairly large number of species could be found, and Volkelt describes them in a classified method under the headings of Earths, Salts, Hard-earths, Stones and Metals.

REFERENCES: BL: [973.a.6.].

#### 4833. — German, 1775.

M. Johann Gottlieb Volkelts | [...3 lines of titles and memberships...] | Gesammlete [sic] | Nachrichten | von | Schlesischen Bergwerken. | [vignette] | [ornate rule] | Breslau und Leipzig, | bey Christian Friedrich Gutsch, 1775.

8°: [10], [3]-272 p., title vignette.

RARE. Contains the author's collected observations on the mining works of Schelisia in Germany.

REFERENCES: BL: [972.g.15.]. • Hoover Collection: no. 840.

### VOLMAR. *German poet.*

REFERENCES: ADB. • WBI.

#### 4834. — German, 1498 [First edition].

[E]In wahrhaftig büchlein gar nütz= | lich zu hören: Zw manchen sachen | Dar in zu lernen Dō der edel tugent und | krafft wegē dy an den edeln steinen synt: | Das manchē mēschen zu hilff mag kumē | der ir tuget lernt zu verstē auß dieszē büch | lein Dā got hat in ir krafft olichē warlich | Als wol als andern dingē oder kreaturē: | [Ornament, being a small woodcut, showing a young man sitting before a collection of false and authentic precious stones.]

4°: [1<sup>10</sup>]; 10ℓ.; no pagination, signature, or foliation marks. Text in 2 columns in Gothic letter. Verso of the last leaf is blank, as well as the second column of the recto of the last leaf.

CONTENTS: 1/1r, Title page.; 1/1v-1/10r, Text, beginning, “Vo d krafft vn eigē | schaffte des Edel gesteines. | meisterlich in Reimē gesetzt. | O reicher got gib mir die krafft | vernunfft küst meisterschaft | das ich bedichte rein | hie sag vō Edelem gestein.”; 1/10r, Colophon: “**¶** Gedruckt Zw Erffort | In sant Pauls pfar. Zw | dē weissen lilligen berge. | Anno dñi: 1498.”; 1/10v, Blank.

EDITIO PRINCEPS. Extremely rare. Printed in Erfurt by Hans Spörer [see note below], this poetic lapidary was written sometime between 1252 and 1254. It describes a variety of gemstones in 1008 verses, and includes the 12 stones of the Apocalypse, as well as precious and semiprecious examples. Information about the stones is derived from several unnamed sources. Described species include: Almendein, Topasius, Smaragdus, Karfunckel, Jochant, Cristall, Achat, Amantist, Crisoleite, Onichilus, Jaspis, Dyemant, Kappenstein, Carniol, Corall, Antite, Schwalwenstein, Zinen, Aldropi, Kröttenstein, Merayte, Calcosan, Perlein, Mucros, Oytalias, Türckis, Elyte, Calcedon, Sardius, Flammat, Gamachw, Rubein, Balas, Crisoforas, Granat and Jachānt, Diacoda, Barill, Sarderein, Crisopras, Augstein, Ademast, Crisolitus, Topasius, Gagatometus, and Domedus.

This description is principally based upon the information provided by Sudhoff (1908), who mentions a modern (to him) reprinting of the text, “Büsching (Museum II, 56),” which so far has not been traced. The Hans Lambel 1877 edition also mentions this earlier text.

**Hans Spörer.** (BORN: ; DIED: ) *German printer.* Spörer printed two block books in 1471 and 1473. He next surfaces in 1487 as a printer in Bamberg, where his press produced continuously until 1494. In 1494, he reestablished himself in Erfurt to escape punishment for printing an unflattering squib about the Duke Albert of Saxony. He continued to work in Erfurt until the close of the century.

REFERENCES: Adams, *Birth and Development*, 1938: 146. • ADB: 40, 259-61. • Klebs, *Incunabula Scientifica*,

1938: no. 932.1. • Kleist, W., "Eine neue Handschrift von Volmars Steinbuch," *Zeitschrift für deutsche Altertum*, **103** (1974), 185-92. • Poynter, F.N.L., "The Editio Princeps of Volmar's Steinbuch?," *Sudhoffs Archiv für Geschichte der Medizin und der Naturwissenschaften*, **44** (1960), 21-25. • Schramm, *Bilderschmuck der Frühdrucke*, 1922-36: **13**, 309. • Schreiber, *Manuel de la Gravure*, 1893-1911: no. 3656. • Sudhoff, *Deutsche Medizinische Inkunabeln*, 1908: no. 85. • Wellcome Catalog (Books): **1**, ?? (Spörer) BMC XV: **1**, 176 & **2**, 591. • Hase, M. von, "H. Sporer und seine Erfurter Zeit (1494-1500)," *Archiv für Geschichte des Buchwesens*, **7** (1966), Sp. 1141-52.

**4835. Modern edition, 1877:** Das Steinbuch. | Ein Altdeutsches Gedicht | Von Volmar. | [rule] | Mit Einleitung, Anmerkungen Und Einem Anhang | Herausgegeben | Von | Hans Lambel. | [ornament] | [ornate rule] | Heilbronn. | Verlag Von Gebr. Henninger. | 1877.

8°: [I]-XXXIII, [1], [1]-137, [1] p. PAGE SIZE: 202 x 144 mm.

CONTENTS: [I-II], Title page, verso blank.; [III]-XXXIII, "Einleitung."—signed H.L, June 1877.; [1 pg], Blank.; [1], Sectional title page, "Daz Steinbuoch."; [2], Blank.; [3]-32, Text of Volmar's Steinbuch.; [33]-91, "Anmerkungen."; [92], Blank.; [93], "Anhang."; [94]-134, Text of the supplement.; [135]-137, "Register."; [1 pg], "Verbesserungen und Zsätze."

SCARCE. Modern edition, edited with considerable commentary and notes by Hans Lambel [1842- ]. An appendix contains German renderings of lapidaries attributed to St. Florian [ -c303 A.D.] from a 15th century manuscript and two short poems by Heinrichs von Mügeln [fl. 1346-1371].

REFERENCES: Sinkankas, *Gemology Bibliography*, 1993: no. 6928.

**VOLTA, Giovanni Serafino.** (BORN: 1764; DIED: 1842) *Italian theologian, geologist & mineralogist.*

Volta was an Abate and respected theologian. He was canon of the Imperial Basilica in Mantova and custodian of the natural history cabinet at the University of Pavia.

REFERENCES: Lambrecht & Quenstedt, *Catalogus*, 1938: 447.

**4836. — Italian, 1787.**

Elementi | Di | Mineralogia | Analitica, E Sistemica | Dell' Abate | D. Serafino Volta | [...5 lines of tables and memberships...] | [rule] | [...3 lines of Latin quotation, signed T.O. Bergmann...] | [rule] | [ornate rule] | In Pavia MDCCLXXXVII. | [rule] | Appresso Pietro Galeazzi. | Con Approvazione.

8°: a4 b8 A-R8  $\chi^1$ ; 149 $\ell$ .; [1]-296, [2] p. PAGE SIZE: 212 x 148 mm. uncut.

CONTENTS: [1-2], Title page, verso "Contemplationes Naturæ, "; 3-4, "L'Editore | A Chi Legge."; 5-16, "Prefazione | Dell' Autore."; 17-24, "Tavola Sistemica | Della Materie."; 25-296, Text.; [1 pg], "Errori. Correzioni."; [1 pg], Blank.

VERY SCARCE. In this descriptive mineralogy, the first 20 pages provide an introduction to the science of mineralogy, while the remainder of the text describes the species. References are provided to the works of Kirwan, Bergman, Lehmann, Cronstedt, Wallerius, etc.

REFERENCES: BL. • LKG: XII 119.

**4837. — German, 1792.**

G. S. V. ... Chemisch-mineralogischer Versuch über die Bäder und Gebürge von Baaden. Aus

dem Italianischen übersetzt von K. Freyherrn v. Meidinger, etc. Wien, 1792.

8°:

VERY SCARCE. \*Originally appeared in 1791, but was published privately.

REFERENCES: BL: [1171.e.4.]. • LKG: XIV 249.

**4838. German transl., 1793:** Des Herrn | Johann Seaphin Volta, | [...2 lines of titles and memberships...] | Anfangsgründe | der | analytischen und systematischen | Mineralogie. | [rule] | Nebst | zween Briefen | des Herrn Bozza und Volta, | über die allgemeine Revolution der Erde, und über die | Versteinerungen des Veronesischen Gebiets, besonders über | die versteinerten Fische des berühmten Berges Volta. | Aus dem Italienischen übersetzt | und mit neuen Zusätzen des Verfassers und Anmerkungen | vermehrt | von | Karl Freyherrn von Meidinger | [...6 lines of titles and memberships...] | [double rule] | Wein und Leipzig, | bey Alops Doll, 1793.

8°: xxxxx, 288 p.

RARE. Translation by KARL FREYHERN VON MEIDINGER of *Elementi di Mineralogia* (Pavia, 1787).

REFERENCES: BL: [726.f.19.]. • LKG: XII 120a.

**4839. — Italian, 1796.**

Ittiolitologia Veronese del Museo Bozziano ora annesso a quello del Conte Giouambattista Gazola e di altri gabinetti di fossili Veronesi con la versione Latina. Verona, Giullardi, 1796.

2 vols. (Text) 2°: lii, cccxxiii p., engraved map, engraved view.; (Atlas) 2°: 74 engraved plates (14 double-page and 5 folding).

RARE. A monumental work on fossil fish, with finely engraved plates, depicting 123 species. This is the first work to describe the specimens found at the famous locality of Monte Bolca near Verona, Italy.

REFERENCES: Nissen (ZBI): no. 4289.

**VON BORN, Iganz Edler.**

See: Born, Iganz Edler Von.

**VON BROCKHAUSEN, Johann Theodor Eller.**

See: Eller Von Brockhausen, Johann Theodor.

**VON EICHWALD, Karl Eduard.**

See: Eichwald, Karl Eduard Ivanovich.

**VON FICHTEL, Johann Ehrenreich.**

See: Fichtel, Johann Ehrenreich Von.

**VON JUSTI, Johann Heinrich Gottlob.**

See: Justi, Johann Heinrich Gottlob Von.

**VON KOBELL, Franz Wolfgang Ritter.**

See: Kobell, Franz Wolfgang Ritter Von.

**VON KOKSHAROV, Nicolai Ivanovich.**

See: Koksharov, Nicolai Ivanovich Von.

**VON LINNÉ, Carl.**

See: Linnaeus (linné), Carl.

**VON SEYSENEGG, Gustav Tschermak.**

See: Tschermak-seysenegg, Gustav Von.

**VON TREBRA, Friedrich Wilhelm Heinrich.**

See: Trebra, Friedrich Wilhelm Heinrich Von.



## VREESWYK

**VON WELL, Johann Jacob.**

See: Well, Johann Jacob Von.

**VON WIDMANNSTÄTTEN, Aloys Joseph Beck Edler.**

See: Widmannstätten, Aloys Joseph Beck Edler Von.

**VON ZITTEL, Karl Alfred.**

See: Zittel, Karl Alfred Von.

**VREESWYK (Vreeswijk), Goossen van.** (BORN: 1626; DIED: c1689) *Dutch mining expert & alchemist.*

Vreeswyk was employed by the Dutch West-India company as "Bergwerker" and "Bergmeester." He worked in different countries of Europe and America.

Goossen van Vreeswyk was a much-travelled expert on mining who had an extensive knowledge of minerals. In the 1670s and 80s he wrote nine alchemical works, which consist of alchemical philosophy, practical instruction and recipes for preparing extracts drawn from the animal, vegetable and mineral kingdoms. He was particularly inspired by the writings of Basil Valentine from which he continually quotes, and he also relies on Paracelsus as an authority. He also employs imagery from the Bible. Many of his works are illustrated with elaborate series of engravings which have a more symbolic and hermetic content. They often use an enigmatic juxtaposition of imagery - trees, vessels of liquid, fire, vegetation and animals - which have alchemical symbols of various substances, the metals, antimony, sal ammoniac, sulphur, tartar, etc., placed upon them.

REFERENCES: Aa, *Biographisch Woordenboek*, 1852-78: 19, 425. • *Chemisch Weekblad*: 1914, p. 1075-8 & 1915, p. 28-9 [by W.P. Jorissen]. • Engel, *Dutch Zoological Cabinets*, 1986: 295. • NNBW: 4, col. 1428. • Raedts, C.E.P.M., *Goossen van Vreeswijk, een Nederlandse "bergmeester" van grote betekenis*. N.p., n.d. [BL: P.P.8002.1h.(7.)].

**4840. — Dutch, 1670** [Collection catalog].

Het | Cabinet | Der | Mineralien, | Metalen, en Berg-eerts; | Hare Gangen, en Natuur; Ook wat | Instrumenten daer toe behooren, om | in vreemde Gewesten te ge- | bruiken. | Hier is noch by-gevoegt een Uitlegging over de | onderste deelen voan de Tafel Hermetis. | Kortelyk beschreven, door | Gossen van Vreeswyk, | Berg-meester. | [ornament] | t'Amsterdam, | [rule] | By Joannes Janssonius van Waesbrge, | op't Water. 1670.

8°: †<sup>4</sup> A-C<sup>8</sup> D<sup>4</sup>; 32ℓ.; [8], 56 p., illus., title vignette, initials and tailpiece.

RARE. Collection catalog.

REFERENCES: BL: [1034.c.14.(1.)]. • Hoover Collection: no. 844. • LKG: III 56. • Ward & Carozzi, *Geology Emerging*, 1984: no. 2262.

**4841. — Dutch, 1672.**

De roode leeuw, of, Het sout der filosofen waer in wonderlijke bedenckingen over het groote werk, heerlijk bearbeiten der metalen en mineralen, kostelijke medicynen, suivere brandewynen uit allerley vruchten, en vele nutte konsten den liefhebberen van de natuur uit eigen ervarenheit mede gedeelt worden door Goossen van Vreeswyk ... allesins met noodige kopere platen verciert. t'Amsterdam : By Pieter Arentsz ..., 1672.

8°: [16], 215, [9] p.

VERY SCARCE. Alchemy.

**4842. — Dutch, 1674.**

De | Groene Leeuw, | Of het | Licht der Philosophen; | Verroonende alle Koninklijke Han- | delingen in het openen en ontfluiten der | Metalen, Mineralen, Vegetabilische en Ani- | malische saken, het onderkennen van hare | Natuur en Souten, seer dienstig tot vele | heerlijke Medicynen, tot vescheide schoo- | ne Verwen en Tincturen, en meer andere | nutre voortreffelijke werken der Konst, uit | eigen ondervinding gunstig voorgetelt. | Door | Goosen van Vreeswkk, | Berg-meester. | Met vele noodige kopere Platen vereiert. | [ornament] | t'Amsterdam gedrukt voor den Autheur. | [rule] | Zija mede te bekomen by Johannes | Janssonius van Waesberge. 1674.

8°: \*<sup>8</sup> A-Q<sup>8</sup>; 136ℓ.; [16], 246 p., 5 leaves of illus., added title page with vignette. VERY SCARCE.

REFERENCES: BL: [1034.c.15.(2.)]. • Hoover Collection: no. 846. • Vreeswyk, G. van, *Alle de Werken* [Edited by F.A.M. Peeters.] Tilburg, 1982. [Modern collected edition of Vreeswyk's works.].

**4843. — Dutch, 1675.**

Vervolg van't | Cabinet der Mineralen, | of de | Goude Son de Philosophen; | Waer in alle bewerckengen der Meta- | len en Mineralen, met de gereedschappen | daertoe dienende, hare Openingen, Verwen, en Tincturen, nevens verscheide | heerlijke Medicijnen, en andereseer nutte | konsten, uit eigen ondervindeing aen 't licht | gegeven. | Door | Goossen van Vreeswyk, | Berg-meester. | Met veel noodige kopere Platen vereiert. | [ornament] | Amsterdam gedrukt voor den Autheur. | [rule] | Zijn mede te bekomen by Johannes | Janssonius van Waesberge. 1675.

8°: \*<sup>8</sup> A-P<sup>8</sup>; 128ℓ.; [16], 325 (i.e. 225), [1] p., 7 leaves of illus., added title page with vignette, ornamental initial and tailpieces. VERY SCARCE.

REFERENCES: BL: [1034.c.14.(1\*).)]. • Hoover Collection: no. 849.

**4844. — Dutch, 1675.**

De | Goude Leeuw | of den | Afijn de Wysen. | Waer in ontallyke heerlyke Konstern | en nurte Verborgentheden ontdekt wor- | den: als de Anima uit alle Metalen en Mi- | neralen te trekken; vele ongemeene Medi- | cynen, Schilder-gout, Brandewynen uit | Koorn sonder viefte smaeck, uitstekend | Blancketsel, kostelyke Gesteenten, &c. | te maken. | Alles met eigen handen gewrocht, en met vele | kopere Platen aen den dach gegeven, | Door | Goossen van Vreeswyk, | Berg-meester. | [ornament] | Amsterdam gedrukt voor den Autheur,

[rule] | Zijn mede re bekomen by Johannes | Janssonius van Waesberg. 1675.

8°: \*<sup>8</sup> A-Q<sup>8</sup>; 136 $\ell$ .; [16], 246 p., 6 leaves of illus., added engraved title page dated 1676, title vignette, initials and tailpieces. VERY SCARCE.

REFERENCES: BL: [1034.c.14.(2.)]. • Hoover Collection: no. 845.

**4845. — Dutch, 1678.**

Het Lict der | Mane, | of Glans de | Sonne, | Waer in gehandelt, wort van de | verborgentheden der overnatuurylij- | ke dingen, bewerckingen der mineralsche | Medicijnen, van hare Souten, Verwen, &c. Item | van de ware materie der Oude Wijlen, als mede | van de Slagh-roeden, Kooren Brandewij- | nen ende meer andere Konsten, ende | metallische Labores uyt liefde | mede gedeelt. | Door | Goossen van Vreeswyck, | Bergwercker. | [ornament] | Tot Rotterdam, | [rule] | Gedruckt by Barent van Santercen, | Berckverkooper op de Beures. Anno 1678.

8°: \*<sup>8</sup> A-F<sup>8</sup>; 56 $\ell$ .; [16], 85, [1] p., 5 leaves of illus. VERY SCARCE.

REFERENCES: BL: [1034.e.19.(1.)]. • Hoover Collection: no. 847.

**4846. — Dutch, 1684.**

Silvere Rivier, | Ofte | Konings Fontein. | Waar- in | ontdektworden veele notable Medicijnen | der oude Philosophen; | Ook | Van't Sout en [ornament] der Metalen, ende wat voor | krachten der Medicijnen daar-in verborgen | zijn; als mede het leven en de dood vande | Metalen en Mineralien, haar verwen | en tinctuur. | Door | Goossen van Vreeswyck, | Berg-Meester. | [ornament] | 'sGravenhage. | By Pieter Haagen, Boekverkoper, | woonende op de Hoog-straat, in de | Stadt Basel. 1684.

4°: a<sup>8</sup> b<sup>4</sup> A-S<sup>4</sup>; 84 $\ell$ .; [24], 132 p., 6 leaves of illus., title vignette, initials and headpieces. VERY SCARCE.

REFERENCES: BL: [1034.e.19.(2.)]. • Hoover Collection: no. 848.

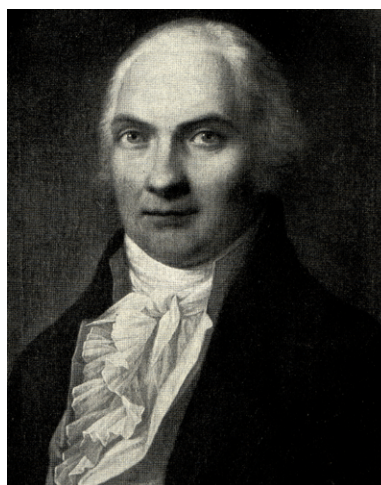
**WACKERNAGEL, Phillipp.**

See: Wakkernagel, Karl Eduard Philipp.

**WAD, Gregers.** (BORN: Vilborg, Denmark, 18 June 1755; DIED: Copenhagen, Denmark, 25 March 1832) *Danish mineralogist & zoologist.*

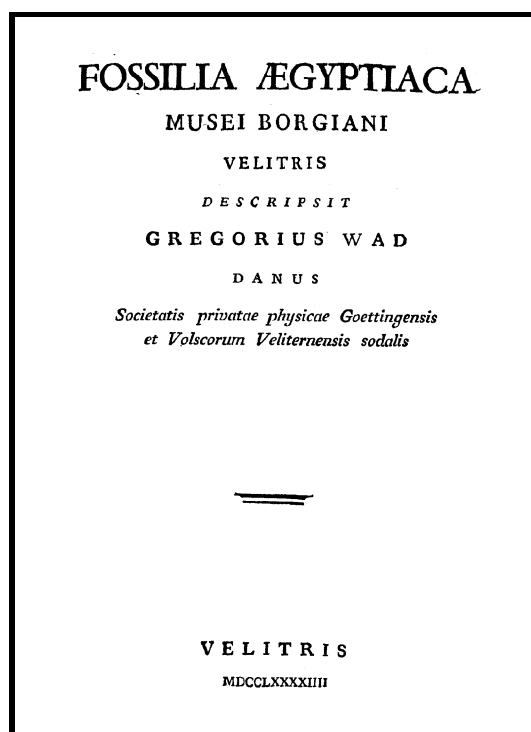
Wad began his studies in theology, but switched to natural history and became a student of M.T. BRÜNNICH. After graduation, he made several excursions throughout Europe. In 1803, after his return from Italy, Wad was appointed professor of natural history at the University of Copenhagen. Also In 1803, he took the job as the first professor at the Mineralogical Museum, Copenhagen.

REFERENCES: *Dansk Biografisk Haandleksikon*: 3, 644. • *Dansk Biografisk Lexikon*: 18, 146 [by V. Hintze]. • Garboe, *Geologiens Historie i Danmark*, 1959-61: 1, 172-83, portrait, manuscript. • Garboe, Axel., "Grev Moltkes Universitetet tilhørende Mineralogiske Museum Greverne Moltke's Betydning far dansk geologi. Et 150 års minde,"



WAD

*Meddelelser fra Dansk Geologisk Forening*, 14 (1961), no. 4, 290-96, figs. 1-2. • Poggendorff: 2, col. 1238. • Sarjeant, *Geologists*, 1980: 3, 2357. • SBA: Scandinavian Biographical Archive: A-343, 16-22. • Wad, G., *Breve fra og til Gregers Wad, 1790-1812; udgivne af Adolphe Clément*. København: H.H. Thieles Bogtrykkeri, 1928. [8], 108, [2], frontispiece, portraits. • WBI.



FOSSILIA ÆGYPTIACA MUSEI BORGIANI, 1794

**4847. — Latin, 1794** [Collection catalog].

Fossilia Ægyptiaca | Musei Borgiaiani | Velitris |

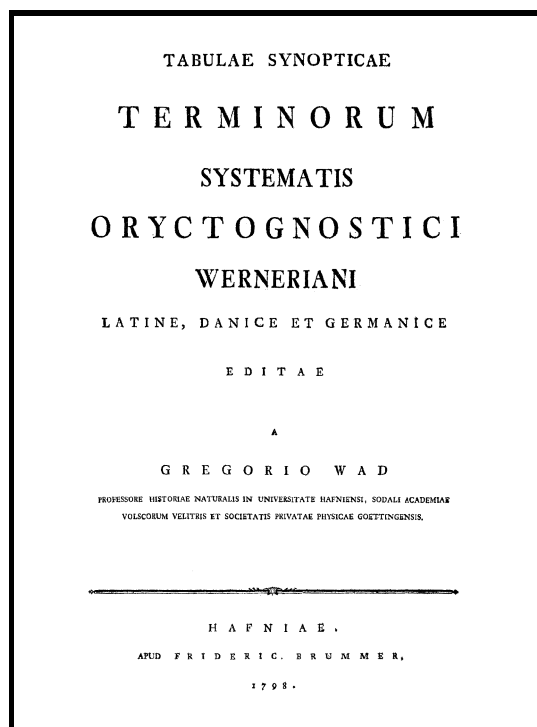
# WADA

Descriptis | Gregorius Wad | Danus | Societatis  
privatae physicae Goettingensis | et Volscorum  
Veliternensis sodalis. | [double rule] | Velitris |  
MDCCLXXXIII.

4°: viii, 32 p.

VERY SCARCE. This is a catalog of the ancient artifacts, fossils and minerals contained in the immense Egyptian collection of Cardinal Borgia, then housed in Rome and Velletri. The collections were founded in the early part of the 17th century by Cardinal Scipio Borgese [1734-1782], nephew of Pope Pius V. Using the classification methodology of Werner and Emmerling, Wad lists both natural specimens and gives accounts of ancient jewelry and precious and semi-precious stones cut from the material. The most valuable parts of the collection were confiscated by Napoleon, and moved to Paris, for which 15 million francs compensation was promised. However, it was never paid in full. A new collection was formed on the remnants of the original between 1820 and 1850 by the Princes Borghese. These collections are today in the Museo Borgiano, Rome, and in the National Museum, Naples.

REFERENCES: *Bibliotheca Danica*: 2, col. 204. • BL: [B.353.(2.)]. • LKG: XIV 885. • Murray, *Museums*, 1904: 2, 128 & 129. • NUC: 643, 628 [NW 0004509]. • Personal communication: [Title page facsimile supplied by Antiquariat Andreas Mueller].



TABULAE SYNOPTICAE TERMINORUM, 1798.

## 4848. — Latin, 1798.

Tabulae Synopticae | Terminorum | Systematis

| Oryctognostici | Werneriani | Latine, Danice  
Et Germanice | Editae | A | Gregorio Wad  
| Professore Historiae Naturalis In Universitate  
Hafniensi, Sodali Academiae | Volscorum Velitris  
| Et Societatis Privatae Physicae Goettingensis. |  
[ornate rule] | Hafniae. | Apud Frideric Brummer, |  
1798.

2°:  $\pi^2$  A-G<sup>2</sup>; 16 $\ell$ .; [4], [1]-25, [3] p. PAGE SIZE: 400 x 245 mm. uncut.

CONTENTS: [2 pgs], Title page, verso "Il faut se hâter, ..."; [2 pgs], Preface, dated November 1, 1797.; [1], "Characteres Fossilium | Externi Generici Universales."; 2-8, Text.; [9], "Characteres Fossilium | Solidorum | Externi Generici Particulares."; 10-25, Text.; [1 pg], "Characteres Fossilium | Friabilium | Externi Generici Particulares."; [1 pg], "Characteres Fossilium | Fluidorum | Externi Generici Particulares."; [1 pg], Blank.

RARE. An attempt to arrange systematically the mineralogical nomenclature of Wernerian theorists into a series of equivalents tables in the Latin, Danish, and German languages. The text consists of sections providing information about the terminology used for the external characters of minerals, crystal forms, physical and chemical properties.

REFERENCES: BL: [B.348.(5.)]. • LKG: VII 5. • NUC: 643, 628 [NW 0004511].

**WADA, Tsunashirō.** (BORN: Obama, province Wakasa, Japan, 15 March 1856; DIED: Tokyo, Japan, 20 December 1920) *Japanese mining expert & mineralogist.*

In 1876, while still a student, Wada wrote a textbook of mineralogy and in the next year a textbook of crystallography. Both of these became popular references at Japanese Universities. In 1878, after completing studies at the University of Tokyo, he entered into the Home department. There, in 1880, he became director of the Geological Survey and in 1889 the Mining Bureau. From 1885 to 1891, Wada also took on the role of professor of mineralogy and lithology at the University of Tokyo. Wada retired to private life in 1893. By request of the Emperor, he was admitted to the House of Peers in 1917. The large mineral collection he accumulated throughout his life was acquired by the University of Tokyo.

REFERENCES: *American Mineralogist*: 6 (1921), 109-13 [by G.F. Kunz]. • *Japan Biographical Encyclopedia*: 1822. • *Mineralogical Magazine*: 19 (1920), 258-9, portrait. • Sarjeant, *Geologists*, 1980: 3, 2357.

## 4849. — Japanese, 1877.

Kinseki shikibetsuhyo. Wada Koreshiro henshu. Tokyo Daigaku Rigakubu, Meiji 10 [1877].

8°: 48, 167 p., illus.

VERY SCARCE. Mineralogy, Determinative.

## 4850. — Japanese, 1904 [First edition].

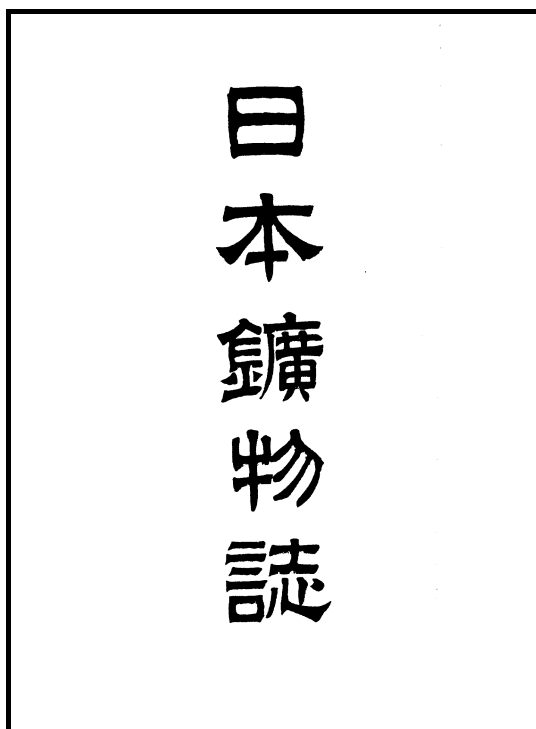
Nihon Kōbutsushi [Minerals of Japan]. Tōkyō: 1904.

8°: [16], 324, 5 p., illus. VERY SCARCE.

4851. 2nd edition, 1916: Nihon Kōbutsushi [Minerals of Japan]. Tōkyō: 1916.

8°: [16], 357, 35, 4, 5 p., illus. VERY SCARCE.

4852. 3rd edition, 1947: Wada's | Minerals of Japan | Third Edition | Revised and entirely rewritten | by | T. Ito and K. Sakurai | Mineralogical Institute, University of Tokyo | 1947 | Tokyo.



NIHON KŌBUTSUSHI, 1904

8°: [4], [i]-v, [1] blank, [2], [1]-368, [1], [1] blank p., 18 plates showing 36 photographs, text illus. PAGE SIZE: 255 x 175 mm.

VERY SCARCE. Edited and expanded edition by Teiichi Ito and Kinichi Sakurai [see notes below]. Although there is a title page in English, the remainder of the book is in Japanese. Presumably published with the authority of the American occupation forces after the war.

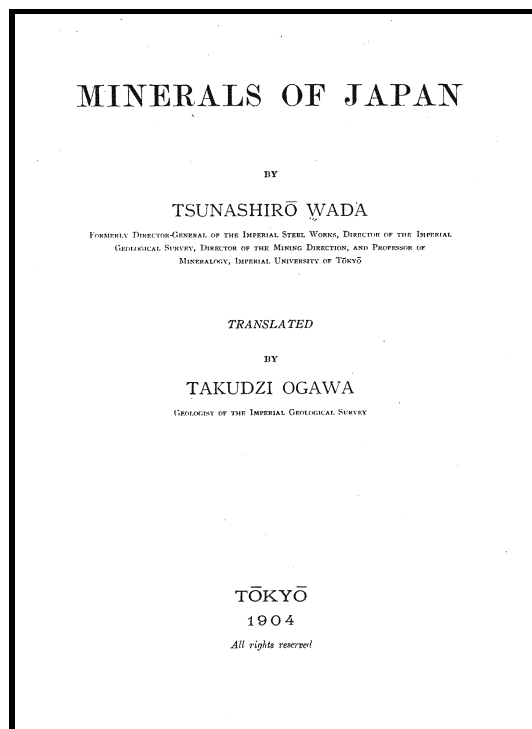
REFERENCES: NUC: 643, 635 [NW 0004655].

**4853. English transl., 1904:** Minerals Of Japan | by | Tsunashirō Wada | [...3 lines of titles and memberships...] Translated | by | Takudzi Ogawa | Geologist of the Imperial Geological Survey | Tōkyō | 1904 | All rights reserved.

8°: [4], [i]-vii, [1], [1]-144, [2] p., 30 (i.e. 31) plates. Each plate has a tissue guard with a brief description. PAGE SIZE: 262 x 172 mm.

CONTENTS: [2 pages], Half title page, "Minerals Of Japan," verso blank.; [2 pages], Title page, verso blank.; [i]-iii, "Preface"—signed Tsunashirō Wada, Tōkyō, 31 July 1904.; [iv], Blank.; [v]-vi, "Contents.;" vii, "Plates.;" [1 page], Blank.; [1]-142, Text.; [143]-144, "Index.;" [31 plates on 30 leaves, each with descriptive letter press tissue].; [1 page], Title of the work in Japanese.; [1 page], Blank.

VERY SCARCE. Translated by Takudzi Ogawa from *Nihon Kōbutsushi* (Tōkyō, 1904). This work gives one of the few accounts in English of the mineralogy of Japan. Notwithstanding the comparatively small geographic size of Japan and the fact that its mineral resources are limited, the country has produced a large number of mineral species, many of them of peculiar interest either because of rarity or of the beauty of their crystallization. This volume provides an excellent summary of the subject. Concise accounts of the species known to occur are given together with exact statements about localities and numerous chemical analyses. A series of fine black and white heliotype plates



MINERALS OF JAPAN, 1904

illustrate notable specimens, such as the well known quartz twins, fine stibnites and topaz crystals.

**Takudzi Ogawa.** (BORN: Wakayama Prefecture, Japan, 1870; DIED: Tokyo, Japan, 1941) *Japanese geologist.* Father of Yukawa Hideki, Nobel Laureate in physics. In 1896, Takudzi graduated from the University of Tokyo. He then entered government service and carried out several geological surveys. In 1908, he was appointed to the geology chair at the newly formed Kyōto University.

REFERENCES: *American Journal of Science*: 1st Series, 19 (1905), 89-90. • Dana's 7th (Bibliography): 82. • NUC: 643, 635 [NW 0004635]. (Ogawa) *Encyclopedia of Japan*: 6, 70. • *Japan Biographical Encyclopedia*: 1121-2.

**4854. — German & English, 1905-15.**

Beiträge | zur | Mineralogie von Japan | Herausgegeben | von | T. Wada | [rule] | Nummer 1—5 | [rule] | 1905—1915 | [ornate rule] | Tōkyō.

8°: [4], [1]-3, [3], [1]-305, [1] p., plates, illus. Supplement to Wada's *Minerals of Japan*. Prefactory note in German, the text is in English. PAGE SIZE: 254 x 172 mm.

CONTENTS: [2 pages], Title page, in German, verso blank.; [2 pages], Title page in English, verso blank.; [1]-3, "Contents.;" [1 page], Blank.; [1 page], "Ankündigung."—signed Tsunashirō Wada, January 1905.; [1 page], Blank.; [1]-305, Text.; [1 page], Blank.

VERY SCARCE. Contains supplements 1 to 5 of the author's *Minerals of Japan* (Tōkyō, 1904). It consists of short articles and notes by Wada and others on new discoveries about the mineralogy of Japan. The articles are in German and English.

REFERENCES: Dana's 7th (Bibliography): 82. • NUC: 643, 635 [NW 0004657].

## WAGNER

### 4855. — Japanese, 1935-7.

Beiträge | zur | Mineralogie von Japan | Begründet von T. Wada | Neue Folge | I [-II] | Herausgegeben von T. Ito | Mineralogisches Institut der Universität Tokio | Tokio | 1935 [-1937].

2 parts. [Part 1: 1935] 4°: [i]-vii, [1], [i]-xviii, [1]-259, [3] p., frontispiece (portrait of Wada), one map.; [Part 2: 1937] 4°: [i]-xi, [1], [1]-168, [2] p., 8 plates, one folding map. PAGE SIZE: 256 x 184 mm.

CONTENTS: [Part 1] [i-ii], Blank, verso title page in German.; [iii-iv], Title page in Japanese, verso copyright information.; [Frontispiece].; [v]-vii, "Contents."; [1 page], Blank.; [Folding map].; [i]-xviii, "Summary And Review | By | T. Ito."; [1]-259, Text [all in Japanese].; [1 page], Blank.; [1 page], Text in Japanese.; [1 page], Blank.

[Part 2] [i-ii], Blank, verso title page in German.; [iii-iv], Title page in Japanese, verso copyright information.; [Plate I].; [v]-vii, Preface in Japanese.; [viii]-xi, Contents in Japanese.; [1 page], Text in Japanese.; [1]-145, Text [all in Japanese].; [146], "Index to Minerals Described."; [147]-168, "Summary and Review | By | T. Ito."; [Folding map].; [1 page], Text in Japanese.; [1 page], Blank.

VERY SCARCE. New supplementary volumes prepared by Teiichi Ito [see note above] to continue on the *Minerals of Japan* first begun by Wada. Emphasis is placed on describing mineral occurrences and deposits of strategic importance. Covered are gold, copper, zinc, tin, zirconium as well as the species covellite, sphalerite, chalcopyrite, pyrite, tetrahedrite, calcite, cerussite, etc. A fine portrait of Wada is used as a frontispiece to the first part.

REFERENCES: Dana's 7th (Bibliography): 82.

**WADSWORTH, Marshman Edward.** (BORN: Livermore Falls, Maine, U.S.A., 6 May 1847; DIED: Bangor, Maine, U.S.A., 21 April 1921) *American petrologist & crystallographer.*

In 1869, Wadsworth graduated from Bowdoin College, Maine. After teaching chemistry in the Dental School at Boston, he became assistant in mineralogy and lithology at Harvard University. In 1884-5, he visited Europe and studied petrography under H. ROSENBUSCH. In 1887, Wadsworth became president of the new Michigan School of Mines. Later he became Dean of the School of Mines and professor of mining geology at the University of Pittsburgh, retiring in 1912.

REFERENCES: ABA: I 1666, 15-28; II 646, 275. • Adams, *Dictionary of American Authors*, 1904: 400. • *Bulletin of the Geological Society of America*: 35 (1924), 15-25, portrait [by A.C. Lane]. • *Herringshaw's National Library of American Biography*. • Lambrecht & Quenstedt, *Catalogus*, 1938: 448. • *Mineralogical Magazine*: 20 (1924), 273-4 [by L.J. Spencer]. • *National Cyclopaedia of American Biography*: 13, 538. • Poggendorff: 3, 1405 & 4, 1584. • Sarjeant, *Geologists*, 1980: 3, 2358. • WBI. • *World Who's Who in Science*: 1744.

### 4856. — English, 1909.

Crystallography | An Elementary Manual For The | Laboratory | by | M. Edward Wadsworth, A.M., Ph.D., F.G.S., | [...3 lines of titles and memberships...] | 3 Tables, 25 Plates, And 612 Figures | [rule] | Philadelphia: | John Joseph McVey | 1909.

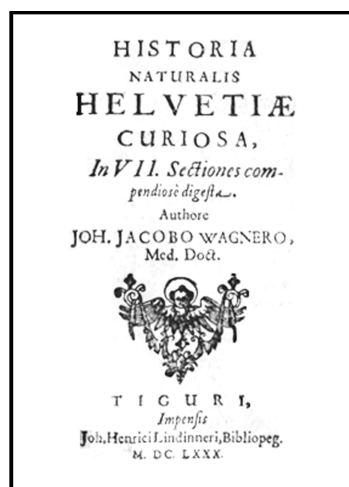
8°: xvi, 20, 299 p., 25 double plates. Bibliography, p. x-xiii. VERY SCARCE.

REFERENCES: Dana's 7th (Bibliography): 82. • NUC: 644, 78 [NW 0007624].

**WAGNER, Johann Jakob.** (BORN: Tägerswilen, Switzerland, 27 April 1641; DIED: Zurich, Switzerland, 14 December 1695) *Swiss physician & naturalist.*

Wagner received his medical degree in 1667. First he was a doctor in Tägerswilen the Canton of Thurgau, than in 1670, he became Physicus in Zurich. He was a member of the Leopoldian Academy.

REFERENCES: DBA: I 1323, 2-26. • Jöcher, *Gelehrten-Lexikon*, 1750-51. • Poggendorff: 2, cols. 1238-9. • WBI. • Wolf, Rudolf. *Biographien zur Kulturgeschichte der Schweiz*. Zürich, 1858-62. 4 vols.



HISTORIA NATURALIS, 1680

### 4857. — Latin, 1680 [First edition].

Historia | Naturalis | Helvetiae | Curiosa, | In VII. Sectiones com- | pendiose digesta. | Autore | Joh. Jacobo Wagnero, | Med. Doct. | [ornament] | Tiguri, | Impensis | Joh. Henrici Lindiner, Bibliopreg. | M. DC. LXXX.

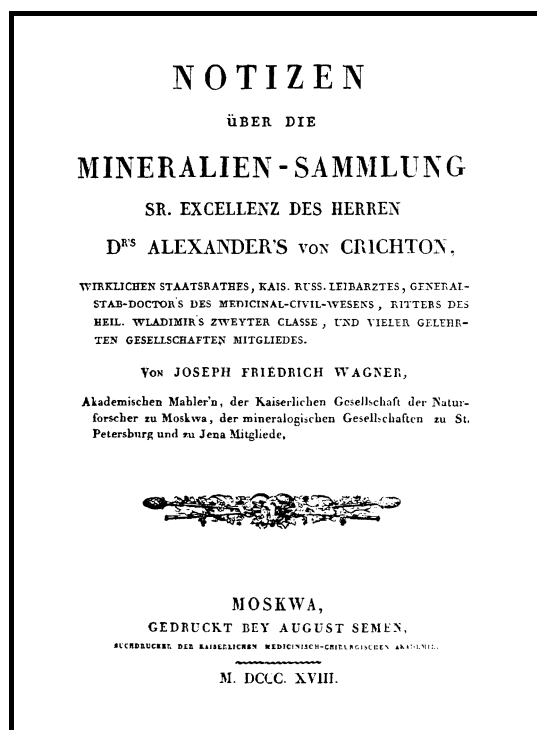
12°: [24], 390, [28] p.

RARE. This early natural history description of Switzerland is divided into seven sections: 1. General description of Switzerland. 2. The Alps are described with respect to their shape, height, glaciers, caves, etc. 3. Covers the lakes, rivers, baths, mineral springs, etc. 4. Animals. 5. Plants. 6. Provides about 50 pages of systematic description of organic and inorganic fossils and minerals. 7. Meteorology. Wagner includes descriptions of 85 Swiss baths and mineral water wells as well as political conditions of the border. He also treats birds, fish, insects, snakes, etc. in the section on animals. For the first time various caves in Switzerland are described.

REFERENCES: BL. • BMC: 5, 2247. • Fueter, *Grosse Schweizer Forscher*, 1941: p. 62. • Haller, *Bibliotheca Botanica*, 1771-2: 1, 1039. • Studer, *Geschichte Geographie Schweiz*, 1863.: 178ff. • Ward & Carozzi, *Geology Emerging*, 1984: no. 2265.

**WAGNER, Joseph Friedrich.** (BORN: ; DIED: )  
*Russian artist.*

Wagner was the official painter for the Royal Society of Naturalist in Moscow. He held membership in the mineralogical societies of St. Petersburg and Jena.



NOTIZEN ÜBER DIE MINERALIEN-SAMMLUNG, 1818

**4858. — German, 1818** [Collection catalog].

Notizen | über die | Mineralien-Sammlung |  
 Sr. Excellenz Des Herren | Dr's Alexander's  
 Von Crichton, | Wirklichen Staatsrathes, Kais.  
 Russ. Leibartztes, General- | Stab- Doctor's  
 Des Medicinal-Civil-Wesens, Ritters Des | Heil.  
 Wladimir's Zweyter Classe, und Vieler Gelehr-  
 | ten Gesellschaften Mitgliebes. | Von Joseph  
 Friedrich Wagner, Akademischen Mahler'n, der  
 Kaiserlichen Gesellschaft der Natur- | forsch-  
 er zu Moskwa, der mineralogischen Gesellschaften zu St.  
 | Petersburg und zu Jena Mitgliebes. | [ornament]  
 | Moskwa, | Gedruckt bey August Semen,  
 | Buchdrucker der Kaiserlichen Medicinisch-  
 Chirurgischen Akademie. | [ornate rule] M. DCCC.  
 XVIII.

4°:  $\pi^8$  1-174; 76 $\ell$ .; [8], [i]-v, [2], [1] blank, [1]-134,  
 [2] blank p., frontispiece portrait, 18 engraved plates.  
 Sinkankas (1993) gives the slightly different pagination,  
 [4], v, [2], [1] blank, [4], 134 p., with the dedication  
 following the errata. PAGE SIZE: 258 x 210 mm.

CONTENTS: [2 pgs], Half title page, "Notizen  
 über Mineralien-Sammlung Sr. Excellenz des Herrn Dr's  
 Alexander's von Crichton," verso blank.; [2 pgs], Title  
 page, verso paragraph in Russian.; [Portrait of Gottlieb von  
 Fischer.]; [1 pg], Dedication to Gottlieb von Fischer.; [1 pg],  
 Blank.; [2 pgs], Preface, dated March 1818.; [i]-v, "Nöthiges  
 Vorwort."—dated 26 April 1819.; [2 pgs], "Druckfehler.";  
 [1 pg], Blank.; [1]-10, "Mineralogische Notizen."; [11]-97,  
 "I. Klasse. Erd- und Stein-Arten."; [98]-134, "II. Klasse.  
 Brennbare Wesen."; [2 pgs], Blank.; [At end], 18 plates.

PLATES: The frontispiece and 18 plates are all finely  
 engraved by Wagner. They consist of: Frontispiece portrait  
 of Dr Gottlieb Fischer of Waldheim. I. Topas (figs. 1–  
 7). II. Topas (figs. 8–16). III. Beryll (figs. 1–13). IV. Beryll  
 (figs. 14–18). V. Beryll (fig. 19). VI. Beryll (figs. 20–24).  
 VII. Beryll (figs. 25–30). VIII. Beryll (figs. 31–35). IX.  
 Grüner Feldspath (figs. 1–2). X. Grüner Feldspath (figs. a–  
 b). XI. Siberit Tourmaline Haüy (figs. 1–4). XII. Siberit  
 (figs. 5–12). XIII. Baicalit (figs. 1–2) & Glimmer (figs.  
 3–4). XIV. Versteinerungen (1 fig.). XV. Krystallisirtes  
 gediegenes Kupfer (1 fig.). XVI. Krystallisirtes Malachit (2  
 figs.). XVII. Cüivre hydrate Haüy (2 figs.). XVIII. Bleyerze  
 (5 figs.).

RARE. This book describes and realistically  
 illustrates Sir ALEXANDER CRICHTON's fine collection of  
 Russian minerals. Crichton's collection was eventually  
 sold at auction in April 1827 [for a description of  
 this catalog, see under CRICHTON]. The volume  
 begins with an historical introduction discussing the  
 collecting of minerals in Russia, including brief sketches  
 of the prominent collectors and their collections.  
 Descriptions of Crichton's finest specimens follow,  
 including numerous topaz, beryl, and tourmaline  
 crystals. Complimenting many of the descriptions  
 are the plates which contain the author's very good  
 renderings of many of the discussed specimens. Wagner  
 also executed the fine portrait of GOTTHELF FISCHER  
 VON WALDHEIM that is used as a frontispiece.

REFERENCES: Agassiz, *Bibliographia Geologiae*, 1848-54:  
 4, 524. • BL: [1254.i.20.]. • NUC: 644, 374 [NW 0014110]. •  
 Partsch, *Katalog der Bibliothek*, 1851: no. 486. • Sinkankas,  
*Gemology Bibliography*, 1993: no. 6955 [gives the wrong  
 year]. • Wilson, *History of Mineral Collecting*, 1994: 81-2  
 & 184.

**WAGNER, Peter Christian.** (BORN: Hof, Germany,  
 10 August 1703; DIED: Bayreuth, Germany, 8 October  
 1764) *German physician.*

Wagner graduated from the University of Halle with  
 his medical degree in 1724. He then opened practices in  
 Bayreuth followed by Erlangen. He was appointed city  
 physician at Pappenheim in 1728. In 1743, he became  
 Stadtphysikus in Bayreuth, where in 1758 he became the  
 director of the medical college.

REFERENCES: DBA: I 1324, 56-67. • Fikenscher,  
 G.W.A., *Gelehrtes Fürstenthum Baireut.*: 10 (1804), 32-7.  
 • Meusel, *Verstorbenen Deutschen Schriftsteller*, 1802-16: 14,  
 332-4. • Poggendorff: 2, col. 1240 & 7a, 745. • WBI.

**4859. — Latin, 1724** [Dissertation].

Dissertatio Inauguralis Physico-Medica | De |  
 Lapidibus | Judaicis, | Quam | Summi Numinis  
 Tutela | Et | Almæ Facultatis Medicæ Gratoso  
 Consensu | Sub Umbra | Dni. Georgii, Daniel |  
 Coschwitzi, | [...5 lines of titles and memberships...] |  
 Pro Gradu Doctoris, | Summis In Arte Salutari  
 Honoribus Et Privilegiis | Doctoralibus Rite

## WAHLENBERG

Capessendis | Horis Locoque Consuetis | Anno c18  
Iccc xxxiv. d. DeCemb. | Publicæ Eruditorum  
ventilationi submittet | Auctor Responsurus. |  
Petrus Christianus Wagner | Curia Variscus. | [rule]  
| Halae Magd. Typis Ioh. Christian. Hilligeri, Acad.  
Typ.

Square 12°: [8], 48, [4] p., one plate.

RARE. A dissertation on the so-called "Jew" stone. The praesidium was Georg. Dan. Coschwitz, and the respondent was Peter Christian Wagner.

REFERENCES: Gatterer, *Mineralogischen Literatur*, 1798-9: 2, 361. • Hoover Collection: no. 853. • Pfeiffer, Heinz. "Hallesche Dissertationen des frühen 18 Jahrhunderts zur Geologie", *Zeitschrift für geologischen Wissenschaften*, 8 (1980), no. 2, 171-9, 2 illus.

### 4860. — Latin & German, 1762-4.

Abbildungen der seltensten und schönsten Stucke des Hochfürstlichen Naturalienkabinet in Bayreuth ... Bayreuth, 1762-4.

4 parts. 2°: [4], 28 p., with a large allegorical engraved title vignette by A.L. Wirsing after M.F. Ledermüller and R.H. Richter, 16 large plates printed in color, and finished by hand (plates XIV/XV on a double-page leaf). The four pages of introduction may have been published as the prospectus, and not included with many copies, which explains why it is missing from many bibliographical descriptions. PAGE SIZE: 417 x 290 mm.

EXTREMELY RARE. No more published. Wagner's *Pictures of the Rarest and most Beautiful Pieces from the Princely Natural History Cabinet in Bayreuth* is listed in only a few of the standard bibliographies. Only four sections were issued of this work that was envisioned to describe and illustrate all of the most interesting specimens contained in the Wunderkammer in Bayreuth. Printed in color and finished by hand, the plates show partly (I) a small American monkey, (VII) a South American frog, (XI) an American Armadillo, and (XII) a Mexican chameleon. According to the prospectus (which occupies the 4 pages at the beginning of the volume and is written in French and German), the work would consist of livraisons containing 4 plates each and would be strictly limited to the number of subscribers. However, probably due to Wagner's death in 1764, publication stopped. No copy has been examined to determine if this book has any mineralogical content.

Related work, 1840: In 1840, Friedrich Braun [1800-1864] published an account of the fossils contained in the Bayreuth collection in his *Verzeichniss der in der Kreis-Naturalien-Sammlung zu Bayreuth befindlichen Petrefacten* (Leipzig, 1840; 4°: viii, 118, [2] p., 22 plates).

REFERENCES: Agassiz, *Bibliographia Geologiae*, 1848-54: 4, 515 [giving wrong year of 1672]. • BL. • Boehmer, *Bibliotheca Historiae Naturalis*, 1785-9: 5, 309. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 261. • *Leipziger gelehrte Zeitung*: 1762, p. 628 & 1764, p. 825. • Ludwig, *Nürnberger Naturgeschichtliche Malerei*, 1998: pp. 130, 170, 339 & 350. • Modeer, Adolph, *Bibliotheca Helminthologica seu enumeratio auctorum qui de vermibus*. Erlangae, Jacob. Palmium, 1786. [7], 222 p. • Murray, *Museums*, 1904: 2, 105 [under

Bayreuth]. • Nissen (ZBI): no. 4309 [no notice of the prospectus].

## WAHLENBERG, Georg.

See: Wahlenberg, Göran.

WAKKERNAGEL, Karl Eduard Philipp. (BORN: Berlin, Germany, 28 June 1800; DIED: Dresden, Germany, 12 June 1877) *German crystallographer*.

Theologian in Breslau, who became director of the Realschule in Elberfeld. In 1861, he retired to Dresden.

REFERENCES: ADB. • DBA: I 1319, 426-427; II 1353, 128-143. • Hamberger & Meusel, *Gelehrte Deutschland*, 1796-1834. • Poggendorff: 2, col. 1237 & 3, 1405. • WBI.

### 4861. — German, 1821.

Netze zu Krystall-Modellen gezeichnet und beschrieben von R. Wakkernagel. Mit einer Vorrede von K. von Raumer. Erste Heft. Berlin, Reimer, 1821.

8°: 39 p., 6 plates. VERY RARE.

WALCH, Johann Ernst Immanuel. (BORN: Jena, Germany, 30 August 1725; DIED: 1 December 1778) *German palaeontologist & geologist*.

REFERENCES: ADB: 40, 652-5. • Baldinger, *Biographien Ärzte*, 1768-71. • Cleavelly, *World Palaeontological Collections*, 1983: 299. • DBA: I 1325, 401-460; II 1358, 411, 414-415, 421. • Drugulin, *Sechstausend Portraits*, 1863: nos. 5755-57. • DSB: 14, 119-20 [by B. von Freyberg]. • *Encyclopaedia Britannica*, 11th edition. • Freyberg, *Geologische Erforschung Thüringens*, 1932. • Günther, *Lebensskizzen der Professoren*, 1858. • Hirsching, *Historisch-literarisches Handbuch*, 1794-1815. • Lambrecht & Quenstedt, *Catalogus*, 1938: 449. • Meusel, *Verstorbenen Teutschen Schriftsteller*, 1802-16. • Möller, R., "Johann Ernst Immanuel Walch. Sein Leben und wissenschaftliches Werk," *NTM-Schriften. Gesch., Naturwiss., Technik, Med., Leipzig*, 9 (1972), no. 2, 70-93, portrait, illus. • Poggendorff: 2, col. 1244. • Sarjeant, *Geologists*, 1980: 3, ????. • WBI. • *World Who's Who in Science*: 1747.

### 4862. — German, 1762-4 [First edition].

Das | Steinreich | systematisch entworfen | von | Joh. Ernst Immanuel Walch | der Beredsamkeit und Dichtkunst ordentl. öffentlicher Lehrer | auf der Universität zu Jena. | [ornament] | [ornate rule] | Mit vielen Kupfern. | Halle | bey Johann Justinus Gebauer. 1762.

2 vols. [VOL 1: 1762] 8°: [1]-140, [8] p., 24 folding plates. [VOL 2: 1764] 8°: [1]-172 p. PAGE SIZE: 196 x 108 mm.

CONTENTS: [Vol 1] [1-2], Title page, verso blank.; [3], Dedication to "Druchlauchtigsten Fürsten" and Mrs Annen Amalien.; [4], Blank.; [5]-[8], Text of dedication, signed Joh. Ernst Immanuel Walch, 3 Sept. 1762.; [9]-28, "Vorrede."— printer's device, p. 28.; [29], "Lithographische Tabellen."; 30-33, "Allgemeine Tabellen über das gesamte Steinreich."; 34-36, "Besondere Tabelle über die Versteinerungen."; [37]-43, "Das Erste Capitel. Von dem Steinreich und allen denen dahin gehörigen Körpern überhaupt."; 44-140, "Das zweyte Capitel von den versteinten Körpern."; [7], "Register."; [1], Blank.; [At end], 25 folding plates.

[Vol 2] [1-2], Title page, verso blank.; [3]-16, "Vorrede."; [1]-4, "Erstes Capitel, von der Erzeugung der Steine. Inhalt."; 5-116, Text.; [117], "Zweytes Capitel,

von den Eigenschaften der Steine. Inhalt."; 118-166, Text.; [167]-172, "Register."

**RARE.** First edition of this major palaeontological work, based upon Walch's cabinet of fossils and minerals. 'In his travels Walch had visited natural history collections and had begun to assemble one himself, composed primarily of rocks and fossils, for which he outlined an exact system that he published in 1761 [sic; it should read 1762] - 1764' (DSB). It was this work which formed the classificatory basis of his completion of Knorr's 'Die Naturgeschichte der Versteinerungen' (1768-1773), the greatest work on fossils published in the eighteenth century. 'In this work Walch presented the first comprehensive palaeontology ordered according to the zoological system... Moreover, in addition to a basic systematics of all the forms known to him, Walch provided a general paleontology (deposition, sedimentary facies, facies distribution) and a history of palaeontology that is still worth reading. His recognition that fossils are members of a sequence linked by historical descent was a fundamental perception. Walch made the previously muddled study of fossils into a science' (ibid.). The first volume consists of an overview of the mineral kingdom, and an examination of fossils; the twenty-four plates illustrate over a hundred fossil specimens. The second volume is on the origins of minerals and fossils.

The plates are very well executed drawings principally of fossil shells, crinoids and molluscs.

REFERENCES: *Berlinische Sammlungen*: 3, 334-35. • BL: [no copy listed]. • *Freilich Sale Catalog*: no. 540. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 27. • *Göttingische gelehrte Anzeigen*: 1763, 274 & 1764, 1113. • LKG: XVII 42b. • NUC: 645, 263 [NW 0026767]. • Ward & Carozzi, *Geology Emerging*, 1984: no. 2267.

**4863. 2nd edition, 1769:** Das | Steinreich | systematisch entworfen | von | Joh. Ernst Immanuel Walch | [...2 lines of titles and memberships...] | [ornate rule] | Mit vielen Kupfern. | [ornament] | [rule] | Neue sehr vermehrte Auflage. | [ornate rule] | Halle, | bey Johann Justinus Gebauer. 1769

2 vols. 24 folding plates. VERY RARE.

REFERENCES: *Berlinische Sammlungen*: 3, 334-35. • BL: [953.e.4.]. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 27. • *Jenaische gelehrte Zeitungen*: 1769, 701. • NUC: 645, 263 [NW 0026768].

**4864. Russian transl., 1784:** Валха Каменное царство, перевел Андрей Нартов, действительный статский советник, Госыдарственной Берг-коллегии вице-президент. Монетхаго департамента, разных ученых овществ член ... Ст. Петербург, При Имп. Акад. Наук, 1784.

[TRANSLITERATED TITLE:]

Valha Kamennoe carstvo, perevel Andreia Nartov, deiastvhtel'nyia statskiia sovetpik, Gosydarstvnoia Berg-kollegii vice-prezident. Monethago departamenta, raznyh ugenyh ovwestv qlen ... St. Petersburg, Pri Imp. Akad. Nauk, 1784.

4°: [11], 146 p., 24 plates.

**RARE.** Translation by Andrei Andreevich Nartov [1737-1813] of *Das Steinreich* (2nd ed., Halle, 1769).

REFERENCES: NUC: 645, 263 [NW 0026752]. • Sopikov, *Essay in Russian Bibliography*, 1904-8: no. 2375. • *Svodnyi Katalog Russkoï Knigi*: no. 832.

**WALCHER, Joseph.** (BORN: 6 January 1717; DIED: 29 November 1803) *German theologian*.

Walcher, a Jesuit, was a professor of mechanics at the University of Vienna.

REFERENCES: DBA: I 1326, 217-226; II 1359, 17. • Hamberger & Meusel, *Gelehrte Teutschland*, 1796-1834. • Hirsching, *Historisch-literarisches Handbuch*, 1794-1815. • Poggendorff: 2, col. 1244. • WBI. • Wurzbach, *Biographisches Lexikon Österreich*, 1856-91.

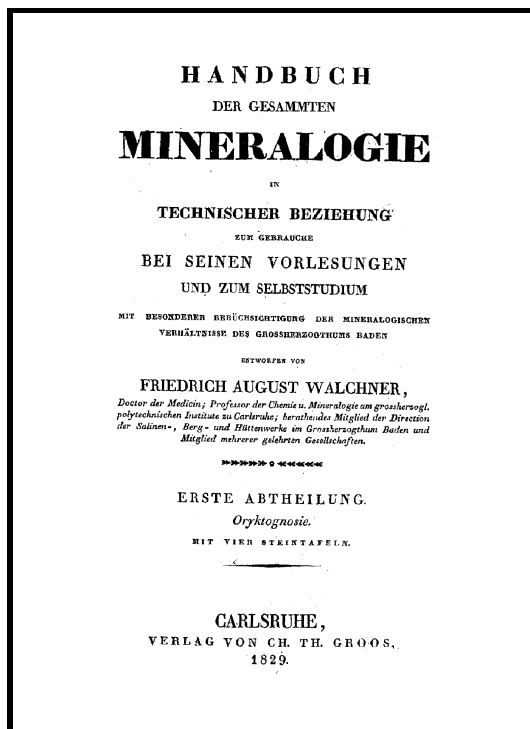
**4865. — German, 1773.**

Nachrichten von den Eisbergen in Tyrol ... Wein, J. Kurzböcken, 1773.

8°: [14], 96 p., engraved vignettes on title and reverse of last leaf, 5 folding plates.

**SCARCE.** Walcher's first book is a pioneering, very detailed account of the glaciers of the Tyrol. Little study had been given glaciers until the nineteenth century because the places where they occurred were avoided by travellers in prior centuries. This work also contains a classification of glaciers, and a description of various warning signs of potential avalanches.

REFERENCES: LKG: XIV 264.



HANDBUCH DER GESAMMTEN MINERALOGIE, 1829

**WALCHNER, Friedrich August.** (BORN: Meersburg am Bodensee, The Netherlands??, 2 September 1799; DIED: 1865) *German chemist & mineralogist*.

REFERENCES: ADB: 40, 656. • DBA: I 1326, 227-229; II 1359, 25-26. • Poggendorff: 2, cols. 1244-5. • WBI.



## WALDIN

### 4866. — German, 1829-30.

Handbuch | Der Gesamten | Mineralogie | In  
| Technischer Beziehung | Zum Gebrauche | Bei  
Seinen Vorlesungen | Und Zum Selbststudium |  
Mit Besonderer Berücksichtigung Der Mineralogis-  
chen | Verhältnisse Des Grossherzogthums Baden |  
Entworfen Von | Friedrich August Walchner, | [...4  
lines of titles and memberships...] | [ornate rule] Erste  
Abtheilung. [-Zweite Abtheilung.] | Oryktognosie.  
[-Geognosie.] | Mit Vier Steintafeln. [-Mit Fünf  
Steintafeln.] | [tapered rule] Carlsruhe, | Verlag  
Von Ch. Th. Groos, | 1829. [-1830.]

8°:  $\pi^8$  1-39<sup>8</sup> 40<sup>4</sup>; 324<sup>l</sup>.; [i]-xvi, [1]-631, [1] p., 4  
folding plates (all showing crystal drawings). PAGE SIZE:  
205 x 125 mm.

CONTENTS: [i-ii], Title page, verso "Gedruckt von  
Scotzniovsky | in Baden."; [iii]-vi, "Vorwort."—signed  
Walchner, October 1829.; [vii]-x, "Inhaltsverzeichnis."; [xi]-xvi,  
"Systematische Übersicht | Der Mineralgattun-  
gen."; [1]-84, "Einleitung."; [85]-615, "Beschreibung der  
einzelnen | Mineralien."; [616], "Verzeichniss einiger neuer-  
er Schriften | über Mineralogie."; [617]-631, "Register."; [1  
pg], "Verbesserungen."; [At end], 4 folding plates.

PLATES: Only the first of the lithographic plates is  
signed, "Steindruckerey v. Rud. Schlicht in Mannheim."

VERY SCARCE. A technical treatment of  
mineralogy designed to be sufficient for the isolated  
amateur to study the subject. It covers all the  
basic elements including crystallography, physical and  
chemical properties, and a lengthy descriptive portion  
that covers the various mineral species. One section  
provides a list of recently published mineralogical  
literature.

REFERENCES: NUC: 645, 281 [NW 0027145].

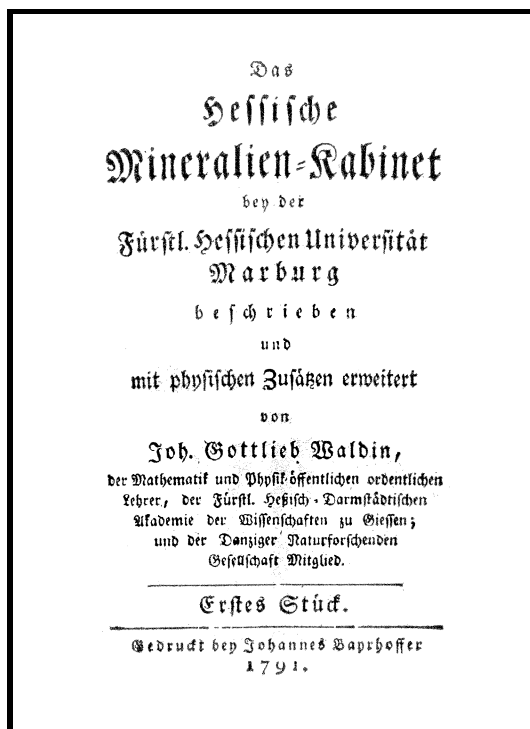
**WALDIN, Johann Gottlieb.** (BORN: Heimatstadt,  
Germany, 28 October 1728; DIED: Marburg, Germany,  
13 July 1795) *German mathematician & mineralogist.*

Waldin graduated from the University of Jena, with  
advanced degrees in mathematics and philosophy. In 1758,  
he was appointed adjunct to the philosophical faculty at  
Jena and in 1765 he was made professor extraordinary.  
However, in 1766, he accepted a position as professor of  
logic and metaphysics at the University of Marburg. In  
1782, he also became a professor of physics. He was  
appointed founder and curator of the University's mineral  
collection, and focused on acquiring new material.

REFERENCES: Baur, *Allgemeines historisches Hand-  
wörterbuch*, 1803. • Curtius, M.C., *Memoria Ioannis Got-  
lieb Waldini. Ex Ritu Academiae Scripsit Michael Conradus  
Curtius*. Typis Kriegeri acad. typographi, 1795. • DBA: I  
1327, 131-145; II 1360, 61. • Günther, *Lebensskizzen der Pro-  
fessoren*, 1858. • Meusel, *Verstorbenen Deutschen Schriftsteller*,  
1802-16. • Poggendorff: 2, cols. 1245-6. • WBI.

### 4867. — German, 1791-2 [Collection catalog].

Das | Hessische | Mineralien=Kabinet | bey  
der | Fürstl. Hessischen Universität | Marburg  
| beschreiben | und | mit physischen Zusätzen  
erweitert | von | Joh. Gottlieb Waldin, | [...5 lines  
of titles and memberships...] | [rule] Erstes Stück. |  
[rule] | Gedruckt bey Johannes Bayrhofer | 1791  
[-1792].



HESSISCHE MINERALIEN-KABINET, 1791

3 parts. [Part 1: 1791] 8°: [Part 2: 1792] 8°: [Part  
3: 1792] 8°:

VERY RARE. First published catalog of the  
Hessischen University mineral collection at Marburg  
(today Philipps University). Waldin was appointed  
founder and first curator of the mineral collection in  
1790. In this role he applied himself with distinction,  
helping to build the collection into one of Germany's  
finest. He acquired some material from NATHANIEL  
GOTTFRIED LESKE and convinced the University's  
administration to provide a yearly stipend to purchase  
additional specimens.

**Related work:** *Die Frankenberger Versteinerungen, nebst  
ihren Ursprunge von Johann Gottlieb Waldin ...* Marburg,  
Verlag der Universität Buchhandlung, 1778. 4°: 32 p.,  
2 plates. This is a rare description of the fossils and  
other petrifications found in the vicinity of Frankenberg,  
Germany. Waldin includes speculations on their origins.

**Marburg, Germany. Philipps University, Mineralogical  
Museum.** Founded 1790. The mineral collection has  
close historic connections to the chair of mineralogy at the  
Philipps-University of Marburg. By decree of the Count  
of Hessa, a "Hessian Mineral Cabinet" was created in  
1790. The first curator was J.G. Waldin [1728-1795] and  
was followed in succession by J.C. Ullmann [1771-1821],  
J.F.C. Hessel [1796-1872], C.A.H. Girard [1814-1878], A.  
von Koenen [1837-1915], F.G. Klocke [1847-1884], M.A.  
Bauer [1844-1917], O. Weigel [1881-1944], F.H. Laves [1906-  
1978], H.G.F. Winkler [1915-1980] and E.E. Hellner [1920-  
]. Today, the collection contains 60,000 minerals and 150  
meteorites.

REFERENCES: *Allgemeine Literatur-Zeitung*: May, 1795,  
p. 257-9. • BL: [727.c.33.]. • Burchard, *Mineral Museums*,  
1986. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 269.

• *Katalog Bergakademie Freiberg*, 1879: p. 698. • LKG: XV 42. • NUC: **645**, 379 [NW 0029286]. • Schürmann, K., *200 Jahre Hessisches Mineralien-Kabinet 1790-1990. Festschrift*. Marburg, 1990: p. 9-11. (Philipps University, Mineralogical Museum) Burchard, *Mineral Museums*, 1986: 50-2. • Petersen, *World Directory of Mineral Collections*, 1994: 122. • Schürmann, K., *200 Jahre Hessisches Mineralien-Kabinet 1790-1990. Festschrift*. Marburg, 1990.

#### 4868. — German, 1778.

Die Frankenberger Versteinerungen, nebst ihren Ursprünge von Johann Gottlieb Waldin ... Marburg, Verlag der Universität Buchhandlung, 1778.

4°: 32 p., 2 plates.

RARE. Description of the fossils and other petrifications found in the vicinity of Frankenberg, Germany. Waldin includes speculations on their origins.

REFERENCES: *Allgemeine Deutsche Bibliothek*: **41**, p. 221. • Gatterer, *Mineralogischen Literatur*, 1798-9: **1**, 110. • LKG: XIV 129. • NUC: **645**, 379.

**WALDSCHMIDT, Wilhelm Ulrich.** (BORN: 1669; DIED: 1731) *German physician.*

REFERENCES: ADB: **40**, 724. • DBA: I 1327, 386. • Poggendorff: **2**, cols. 1249-50. • WBI.

**4869. Dissertation, 1697:** *Dissertatio de Salis Volatilis Cornu cervi Crystallisatione Volatiliessentiali quam Praeside Wilhelmo Hulderico Waldschmiedt Examini Exponet Johannes Hartmannus ... Kiliae, 1697.*

4°: [18] p.

VERY RARE. Kiel, Univ., Diss., 1697 (Johann Hartmann, respondent).

REFERENCES: Gatterer, *Mineralogischen Literatur*, 1798-9: **2**, 88.

#### 4870. — Latin, 1720.

Programma de Metallorum, Lapidem & Plantarum Generatione. Kiliae, 1720.

4°: [8] p. EXTREMELY RARE.

REFERENCES: Gatterer, *Mineralogischen Literatur*, 1798-9: **1**, 246. • LKG: XVI 74.

**WALDSCHMIEDT, Wilhelm Huld.**

See: **Waldschmidt, Wilhelm Ulrich.**

**WALKER, John.** (BORN: 1731; DIED: 31 December 1803) *English botanist & geologist.*

REFERENCES: BBA: I 1124, 177-184. • Livingstone, *Minerals of Scotland*, 2002: p. 17-21. • Watt, *Bibliotheca Britannica*, 1824. • WBI.

#### 4871. — Latin, 1782.

Delineatio Fossilium, in usus academicos. Edinburgi, 1782.

4°: 24 p. VERY SCARCE.

REFERENCES: DSB. • NUC: **646**, 11 [NW 0036450].

#### 4872. — Latin, 1787.

Classes fossilium; sive, Characteres naturales et chymici classium et ordinum in systemate minerali; cum nominibus generices adscriptis. In usus academicos. Edinburgi, 1787.

8°: xxvii, 104 p.

VERY SCARCE. Written as a syllabus for his students at the University of Edinburgh, this

publication classifies minerals and fossils according to Linnaean principles.

REFERENCES: DSB. • LKG: XII 118. • NUC: **646**, 11 [NW 0036449].

**WALKER, Thomas Leonard.** (BORN: Near Brampton, Ontario, Canada, 31 December 1867; DIED: Toronto, Ontario, Canada, 6 August 1942) *Canadian mineralogist.*

Walker was educated at Queen's University, Kingston, receiving his M.A. in 1890. From there he traveled to Leipzig where he was awarded a Ph.D. in 1896. From 1897 to 1901 he was assistant superintendent of the Geological Survey of India. He returned to Canada in 1901, becoming professor of mineralogy at the University of Toronto until 1937. In 1913, Walker was also appointed director of the Royal Ontario Museum of Mineralogy and Petrology in Toronto. He was elected a Fellow of the Royal Society of Canada in 1919, and in 1941 he was awarded the Society's Flavelle medal for his scientific contributions. In 1938, he also received an honorary D.Sc. from the University of Toronto.

REFERENCES: ABA: I 1674, 40-43; II 649, 147-148. • BBA: I 1125, 66-67. • *Dictionary of Canadian Biography*: 779. • *Proceedings of the Royal Society of Canada*: 1943, xci-xcii. • Sarjeant, *Geologists*, 1980: **3**, 2365. • WBI. • *World Who's Who in Science*: 1750.

#### 4873. — English, 1914.

Crystallography, an outline of the geometrical properties of crystals, by T. L. Walker. New York, McGraw-Hill Book Company, Inc., 1914.

8°: xiv, 204 p., frotnispiece, illus. VERY SCARCE.

REFERENCES: Dana's 7th (Bibliography): **82**. • NUC. • *USGS Library Catalog*.

**WALLERANT, Frédéric Félix Auguste.** (BORN: Tritt Saint Léger, France, 25 July 1858; DIED: Paris, France, 11 July 1936) *French mineralogist & crystallographer.*

Educated at the Lycée of Marseille and the École Normale Supérieure in Paris, Wallerant was appointed professor of mineralogy at the University of Paris, where he remained from 1903 to 1933. Wallerant authored many papers on mineralogy and crystallography. He was elected to the Paris Academy of Science in 1907 and he was president of the French Mineralogical Society in 1905 and 1916.

REFERENCES: ABF: II 637, 212-215. • *Comptes rendus hebdomadaires des séances de l'Académie des sciences*: **203** (1936), 137-9. • Lorenz, *Catalogue Général*, 1869-1945. • *Mineralogical Magazine*: **25** (1939), 304 [by L.J. Spencer]. • Poggendorff: **4**, 1593-4, **5**, 1331 & **6**, 2802. • Sarjeant, *Geologists*, 1980: **3**, 2371. • WBI. • *World Who's Who in Science*: 1752.

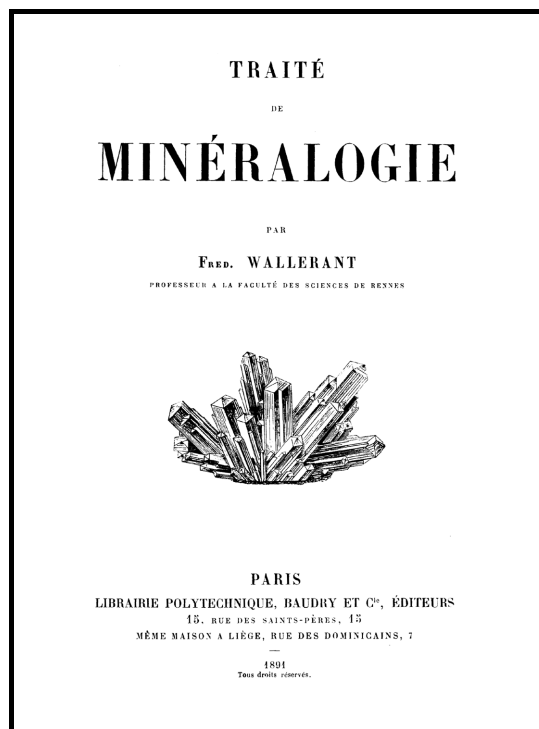
#### 4874. — French, 1891.

Traité | De | Minéralogie | Par | Fred. Wallerant | Professeur A La Faculté Des Sciences De Rennes | [ornament of an anacrine specimen.] | Paris | Librairie Polytechnique, Baudry Et C<sup>ie</sup>, Éditeurs | 15, Rue Des Saints-Pères, 15 | Même Maison A Liège, Rue Des Dominicains, 7 | [short rule] | 1891 | Tous droits réservés.

8°: [1]-7, [1], [1]-459, [1] p., 341 illus., diagrams.

PAGE SIZE: 252 x 146 mm. uncut.

CONTENTS: [1-2], Half title page, "Traité | De | Minéralogie," verso blank.; [3-4], Title page, verso blank.;



TRAITÉ DE MINÉRALOGIE, 1891

[5]-7, "Préface.;" [1 pg], Blank.; [1]-447, Text.; [448], Blank.; [449]-454, "Table Des Matières.;" [455]-459, "Table Alphabétique Des Noms D'Espèces.;" [1 pg], Blank.

SCARCE. A mineralogy textbook which contains many original observations in its treatment of physical and chemical characters and descriptive mineralogy. Based on Lapparent's *Cours de Minéralogie* (1st ed., Paris, 1884) and Mallard's *Traité de Cristallographie* (Paris, 1879-84), this book is clearly a more advanced text than is normally encountered, with the subject being explained from the standpoint that the reader is already knowledgeable in mineralogy. Treatment is given to both crystallography and mineralogy. It is well illustrated with renderings of crystal drawings, as well as mineral specimens. The science

**Sections:** Livre Premier-Cristallographie. Introduction (pp. 1-2). I. Etude générale des formes cristallines (pp. 3-60) II. Etude des systèmes cristallins (pp. 61-139). Livre II-Minéralogie Physique. Premier section (pp. 140-153). Propriétés optiques (pp. 154-263). [Physical properties] (pp. 264-282). Livre III-Minéralogie Spécifique. Détermination des espèces. Classification (pp. 283-317). Description des espèces (pp. 318-447). Table des matières. Table alphabétique des noms d'espèces.

REFERENCES: Dana's 7th (Bibliography): 82. • NUC: 646, 523 [NW 0047353].

#### 4875. — French, 1909.

Cristallographie | [rule] | Déformation Des Corps Cristallisés | Groupements | Polymorphisme — Isomorphisme | Par | Fred. Wallerant | Membre de l'Institut, | Professeur de Minéralogie à la

Sorbonne. | [rule] | Paris | Librairie Polytechnique Ch. Béranger, Éditeur | 15, Rue Des Saints-Pères, 15 | Maison A Liège, 21, Rue De La Régence | [rule] | 1909 | Tous droits réservés.

8°: [4], [i]-iii, [1], [1]-523, [1], [1]-12 publishers list p., illus.

CONTENTS: [2 pgs], Half title page, verso blank.; [2 pgs], Title page, verso blank.; [i]-iii, "Préface.;" [1 pg], Blank.; [29]-88, "Livre Premier. De la Déformation Homogène.;" [89]-161, "Livre II. Groupements Cristallins.;" [162], Blank.; [163]-202, "Livre III. De la Symétrie Apparente.;" [203]-328, "Livre IV. Polymorphisme.;" [329]-490, "Livre V. Isomorphisme.;" [491]-516, "Livre VII. [!] Groupements de Cristaux d'Espèces Différentes.;" [517]-523, "Table des Matières.;" [1 pg], Blank; [1]-12, "Catalogue de Livres sur la Géologie, la Minéralogie et l'Exploitation des Mines."

SCARCE. Crystallography textbook which contains many original observations and research by the author. It is thoroughly scientific and treats especially twinning, polymorphism, isomorphism and epitaxy, regular groupings of crystals, and optical anomalies. It was written as a completion of E. MALLARD's *Traité de Cristallographie* (Paris, 1879-84), for which a third volume was never published.

REFERENCES: Dana's 7th (Bibliography): 82. • NUC: 646, 523 [NW 0047352].

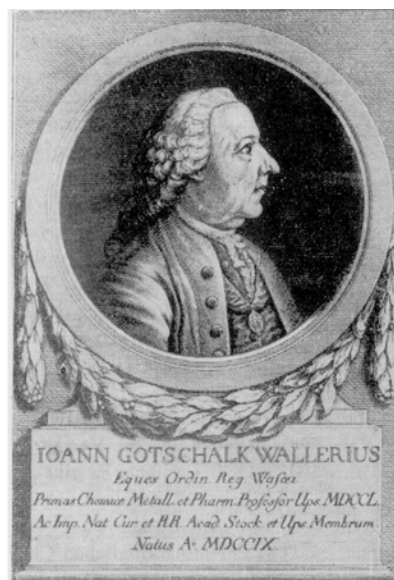
#### 4876. — French, 1911.

Exposé Élémentaire de lois de la Cristallographie Géométrique. Paris: Librairie Polytechnique, 1891.

8°: ii, 27 p., illus.

VERY SCARCE. Crystallography, mathematical.

REFERENCES: NUC: 646, 523 [NW 0047351].



WALLERIUS

**WALLERIUS, Johan Gotschalk.** (BORN: Stora Mellösa, Nerke, Sweden, 11 July 1709; DIED: Uppsala, Sweden, 16 November 1785) *Swedish chemist, mineralogist & agriculturist.*

Wallerius studied at the University of Uppsala, then taught medicine at Lund, before returning to Uppsala in 1735 as a lecturer in medicine. As a member of the medical faculty, he taught physiology and anatomy, but he also had an interest in chemistry and mineralogy. To pursue these subjects, Wallerius set up a chemical laboratory, where experiments were carried out and lectures on chemistry, mineralogy and assaying given. In 1750, Wallerius was appointed to the newly created professorship of chemistry at Uppsala, in which capacity he served until failing health caused his retirement in 1767. He moved to the country, where he continued to pursue his natural history and agricultural studies.

REFERENCES: Bergstrand, C.E., *Johann Gottschalk Wallerius som landbrukskemist och praktisk jordbrukare ett ärofullt och lärorikt minne för landtmän och naturforskare i alla tider, jemte biografiska och genealogiska anteckningar om Walleriernas släktföllanden m.m.* Stockholm, Fahlcrantz, 1885. 108 p., frontispiece (portrait), plates. • *Biographiskt Lexicon*. • Drugulin, *Sechstausend Portraits*, 1863: nos. 5763-4. • DSB: 14, 144-45 [by U. Boklund]. • *ISIS*, 1913-65: 2, 607. • Lambrecht & Quenstedt, *Catalogus*, 1938: 450. • Lindroth, *Swedish Men of Science*, 1952: 92-104 [by N. Zenzén]. • Oseen, C.W., "En episod i den svenska kemiens historia," *Lychnos*, 1940, 73-85. [Concerns Brandt's 1748 discovery that gold dissolves in Aqua-Rega acid]. • Poggendorff: 2, cols. 1252-3. • Sarjeant, *Geologists*, 1980: 3, 2371-2. • SBA: Scandinavian Biographical Archive: B-355, 342-363. • Svedmark, E., "Några anteckningar om Johan Gottschalk Wallerius," *Geologiska Föreningens i Stockholm Förhandlingar*, 7 (1885) [notes on Wallerius]. • *Svenskt Biografiskt Handlexikon*: 2, 689-90, portrait. • WBL. • *World Who's Who in Science*: 1752. • Zenzén, N., "Johan Gottschalk Wallerius' självbiografi," *Lychnos*, 1953, 235-59. [Autobiography of Wallerius].

### Original edition

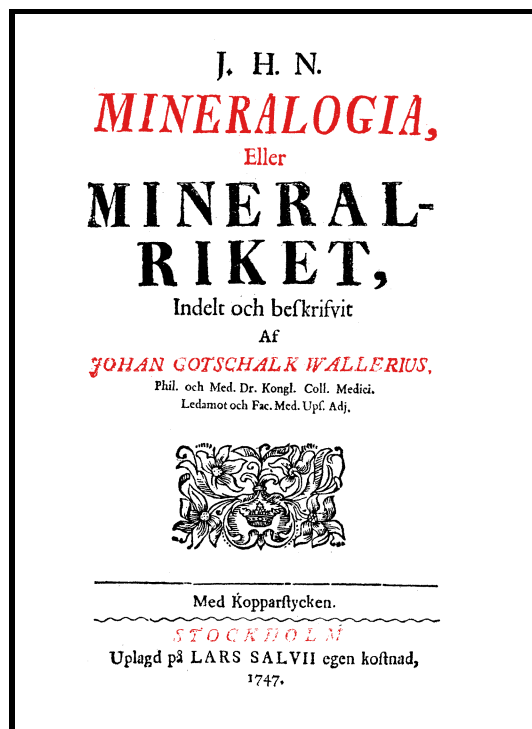
#### 4877. — Swedish, 1747.

[In black:] J.H.N. | Mineralogia, | Eller | [in red:] Mineral- | riket, | [in black:] Indelt och beskriift | Af | [in red:] Johan Gotschalk Wallerius, | [in black:] Phil. och Med. Dr. Kongl. Coll. Medici. | Ledamot och Fac. Med. Ups. Adj. | [ornament] | [rule] | Med Kopparstycken. | [ornate rule] | [in red:] Stockholm, | [in black:] Uplagd på Lars Salvii egen kostnad, | 1747.

8°: )(8 b<sup>8</sup> c<sup>3</sup> A-Z<sup>8</sup> Aa-Gg<sup>8</sup>; 258ℓ.; [36], [1]-479, [1] p., one folding engraved plate (180 x 180 mm., 22 figs.), printer's device on title and page 479. Title in red and black. PAGE SIZE: 185 x 114 mm.

CONTENTS: [2 pgs], Title page, verso blank.; [7 pgs], "Benägne Läsare och Bärsg- | man!" [=forword].; [29 pgs], "Minnes-Tafla | öfver | Mineral-Riket."; [1]-421, Text.; 422-479, "Appendix | Eller | Tilstats | Om Främmande | Mineralier | De | Mineralibus | Artefactis."; [1 pg], Blank.

VERY SCARCE. A book that established a firm foundation on which the science of mineralogy could grow. It has been described as "a summary of the whole mineralogical knowledge of the time."<sup>[1]</sup> Never before in the history of mineralogy had a large number of minerals been presented so systematically and concisely. Wallerius gives clear and precise descriptions of each



MINERALOGIA, ELLER MINERALRIKET, 1747

mineral mentioned, including the name .... etc. He also for the first time gives more weight to essential chemical properties than to exterior appearance, which foretold a new epoch in mineralogy. His classification scheme which is related to that used by LINNEAUS' and BROMELL's assigns an Order, Class, Genera and Species to each mineral individual. These mineral species are then more generally distributed into divisions of Terrae, Lapide, Mineræ and Concreta.

The work begins with a brief description of the history of mineralogy, followed by the systematic mineral descriptions.

REFERENCES: BL. • Burke, *Origins of the Science of Crystals*, 1966: 25-6. • Dana's 7th (Bibliography): 82. • DSB: 14, 144-5. • Ferguson, *Bibliotheca Chemica*, 1906: 2, 528-9. • *Freilich Sale Catalog*: no. 543. • Gatterer, *Mineralogischen Literatur*, 1798-9. • Kobell, *Geschichte der Mineralogie*, 1864: 39 & 70. • LKG: XII 25. • NUC. • Partington, *History of Chemistry*, 1961-70: 3, 169-72. • Sinkankas, *Gemology Bibliography*, 1993: no. 6985. • Ward & Carozzi, *Geology Emerging*, 1984: no. 2278.

### German editions

**4878. Translation, First edition, 1750:** Joh. Gottschalk Wallerius, | [...5 lines of titles and memberships...] | Mineralogie, | Oder | Mineralreich, | von Ihm eingeteilt und beschreiben. | [rule] | Ins | Deutsche übersezt | von | Johann Daniel Denso, | [...4 lines of titles and memberships...] | [rule] | Mit Königl. Pohnlis. und Preußis. auch Chursürstl. Säch= | sischen und Brandenburgischen Privilegiis. | [rule] | [ornate rule] | Berlin | Verlegts Christoph Gottlieb Nicolai, | 1750.

8°: a-c<sup>8</sup> A-Z<sup>8</sup> 2A-2Q<sup>8</sup> 2R<sup>4</sup>; 340ℓ.; [48], [1]-600, [32] p., one engraved, folding plate, showing 22 figures.



MINERALOGIE, ODER MINERALREICH, 1750

PAGE SIZE: 172 x 102 mm.

CONTENTS: [2 pgs], Title page, verso blank.; [6 pgs], "Vorrede des Uebersetzers."—dated 26 September 1749.; [10 pgs], "Geneigter Leser und Bergmann!"; [30 pgs], "Gedächtnistafel über das Mineralreich."; [One folding plate]; [1]-600, Text.; [30 pgs], "Verzeichnis. Der im Mineralreiche vorkommenden Wörter und Sachen, worin zugleich auf die Anwendung der Arbeiter und Künstler gesehen worden."; [2 pgs], "Errata."

VERY SCARCE. Translation by Johann Daniel Denso [see note below] of *Mineralogia, eller Mineralriket* (Stockholm, 1747).

REFERENCES: *Berlinische Sammlungen*: 3, 318-19. • BL. • Gatterer, *Mineralogischen Literatur*, 1798-9. • Hoover Collection: no. 861. • LKG: XII 26. • NUC.

**4879. Translation, 2nd edition, 1763:** Joh. Gottschalk Wallerius, | [...5 lines of titles and memberships...] | Mineralogie, | Oder | Mineralreich, | von Ihm eingetheilt und beschreiben. | [ornate rule] | Ins Deutsche übersezt | von | Johann Daniel Denso, | [...3 lines of titles and memberships...] | [rule] | Zweite verbesserte und vermehrte Auflage. | [rule] | Mit allergnädigsten Freiheiten. | [ornate rule] | Berlin, | bey Friedrich Nicolai, 1763.

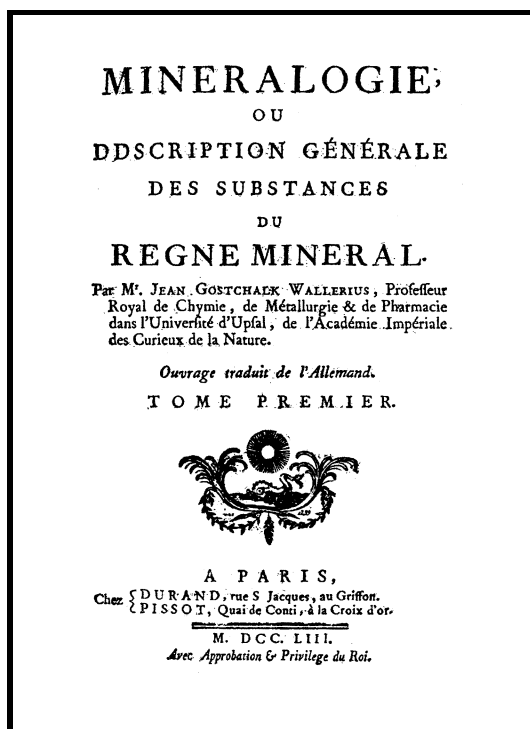
8°: a-c<sup>8</sup> A-Z<sup>8</sup> 2A-2Q<sup>8</sup> 2R<sup>4</sup>; 340ℓ.; [48], [1]-600, [32] p., one engraved, folding plate, showing 22 figures. PAGE SIZE: 175 x 106 mm.

CONTENTS: [2 pgs], Title page, verso blank.; [6 pgs], "Vorrede des Uebersetzers."; [2 pgs], "Vorrede zur zweiten Auflage."; [8 pgs], "Geneigter Leser und Bergmann!"; [30 pgs], "Gedächtnistafel über das Mineralreich."; [1]-600, Text.; [32 pgs], "Verzeichnis. Der im Mineralreiche vorkommenden Wörter und Sachen, worin zugleich auf die Anwendung der Arbeiter und Künstler gesehen worden."; [At end], One plate.

VERY SCARCE. Slightly corrected reissue of the 1750 German translation by Johann Daniel Denso of *Mineralogia, eller Mineralriket* (Stockholm, 1747). A two page Vorrede

has been added and the 2 pages of errata found in the previous edition have been incorporated into the text.

REFERENCES: *Berlinische Sammlungen*: 3, 318. • BL. • Gatterer, *Mineralogischen Literatur*, 1798-9. • LKG: XII 26. • NUC. • Schröter's *Journal für die Liebhaber*: 6, 195.



MINERALOGIE, 1753

## French editions

**4880. Translation, First edition, 1753:** Mineralogie, | Ou | Description [sic] Générale | Des Substances | Du Regne Mineral. | Par Mr. Jean Gotschalk Wallerius, Professeur | [...3 lines of titles and memberships...] | Ouvrage traduit de l'Allemand. | Tome Premier [-Second] | [ornament] | A Paris, | Chez { Durand, rue S. Jacques, au Griffon. | Pissot, Quai de Conti, à la Croix d'or. | [double rule] | M. DCC. LIII. | Avec Approbation & Privilège du Roi.

[SECTIONAL TITLE PAGE:]

Hydrologie, | Ou | Description | Du Regne Aquatique, | Divisée | Par Classes, Genres, Espèces, Et Variétés, | Avec | La Manière De Faire L'Essai Des Eaux. | Par M. Jean Gotschalk Wallerius Profes- | seur Royal en Chimie, Metallurgie & Pharma- | cie dans l'Université d'Upsal, de l'Académie | Impériale des Curieux de la Nature, & c.

2 vols. [VOL 1] 8°: \*-\*\*\*8 A-Z<sup>8</sup> 2A-2N<sup>8</sup> 2O<sup>2</sup>; 310ℓ.; [i]-xlviij, [1], [1]-569, [3] p., 4 folding engraved plates (Pl. I-IV); [VOL 2] 8°: π<sup>1</sup> A-R<sup>8</sup> S<sup>6</sup> a-q<sup>8</sup> χ<sup>2</sup>; 273ℓ.; [2], [1]-284, 1-256, [4] p. PAGE SIZE: 194 x 114 mm.

CONTENTS: [Vol. 1] [i-ii], Title page, verso blank.; [iii]-iv, Dedication to D'Arclais de Montamy; v-xvi, "Preface | Du Traducteur."; xv-xxij, "Preface | De L'Auteur."; xxiiij-xlvij, "Table | Du Regne Minéral."; [1 pg], Blank.; [1]-569, Text.; [2 pgs], "Errata | Du Premier Volume."; [1 pg], Blank.

[Vol. 2] [2 pgs], Title page, verso blank.; [1]-268, Continuation of mineralogy text.; [269-270], Sectional title page, verso blank.; 271-277, "Preface | De L'Auteur.";

278-284, Table [=overview of classification].; 1-228, Text of hydrology volume.; 229-235, "Index Alphabeticus | Mineralogiae. Vol. I."; 236-242, "Table | Alphabetique de la Mineralogie. Vol. I."; 243-247, "Index Alphabeticus | Secundi Voluminis."; 248-252, "Table | Alphabetique de la Mineralogie. Vol. II."; 253-254, "Table | Alphabetique de l'Hydrologie. Vol. II."; 255-256, "Table | Alphabetique de l'Hydrologie. Vol. II."; [4 pgs], "Approbation" & "Privilege Du Roy."; [At end], 4 folding plates.

PLATES: The four engraved folding plates are all unsigned. Plate I is identical to the original 1747 edition and shows 12 figures of crystals and minerals. Plate II shows figures 13-22 of crystals and minerals. Plate III shows snowflakes?. Plate IV various diagrams.

VERY SCARCE. A translation by P.H.T. D'Holbach of *Mineralogie, oder Mineralreich* (Berlin, 1750). Volume two is a translation of the German edition of Wallerius' *Hydrologie* (Berlin, 1751). Baron Holbach was a French philosopher of German descent and a collaborator in the *Encyclopédie*.

REFERENCES: BL. • Dana's 7th (Bibliography): 82. • *Freilich Sale Catalog*: no. 546. • Gatterer, *Mineralogischen Literatur*, 1798-9. • Hoover Collection: no. 862. • NUC. • Sinkankas, *Gemology Bibliography*, 1993: no. 6986.

4881. Translation, 2nd edition, 1759: *Mineralogie; ou, Description Generale des substances du Regne Mineral*, par M. Jean Gotschalk Wallerius ... Ouvrage traduit de l'Allemand. Paris: J.-T. Herissant, 1759.

2 vols.

VERY SCARCE. Reissue(?) of the 1753 French edition, translated by Baron P.H.D. von Holbach.

REFERENCES: *Berlinische Sammlungen*: 3, 319. • Gatterer, *Mineralogischen Literatur*, 1798-9. • Hoover Collection: no. 862. • LKG: XII 27. • NUC: [NW 0047419]. • Schröter's *Journal für die Liebhaber*: 6, 195. • *Vogels Medical. Bibliographie*: 1, 141-57.

### Russian edition

4882. Russian transl., 1763: *Минералогия или Описание всякого рода руд и ископаемых из земли вещей, сочиненное Иоганном Готшалком Шалерием, Королевской Шведской академии в Упсале Философии и медицины доктором, а с немецкаго на российской языкъ переведенное действительным стацким советником, Берг коллегии президентом и Монетной канцелярии главным судьбою Иваном Шлаттером*. St. Petersburg, Pri Imp. Akad. Nauk, 1763.

8°: [6], 699, 34 p., one plate.

CONTENTS: TITLE TRANSLATION: Mineralogy, or the description of various kinds of ores and fossils extracted from the earth.

VERY SCARCE. Translation by Ivan Shlyatter of *Mineralogie, oder Mineralreich* (Berlin, 1750).

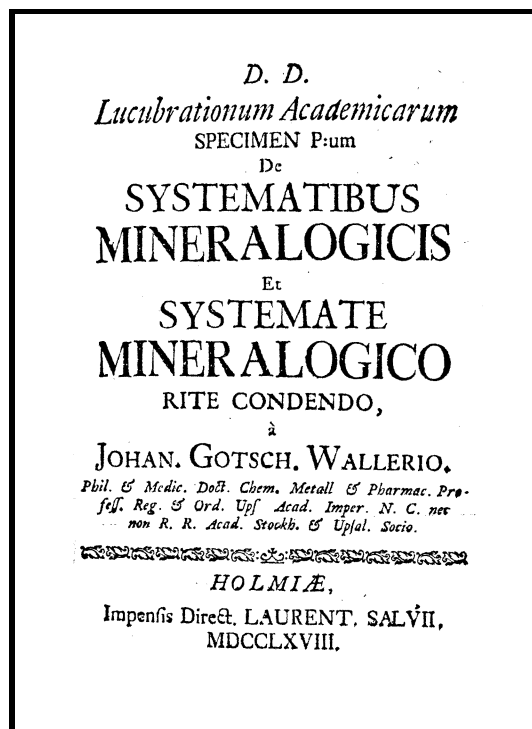
REFERENCES: BL. • NUC. • Sopikov, *Essay in Russian Bibliography*, 1904-8: no. 6224. • *Svodnyi Katalog Russkoi Knigi*: no. 829.

4883. — Latin, 1768 [First edition].

D.D. | *Lucubrationum Academicarum* | Specimen P:um | De | *Systematibus* | *Mineralogicis* | Et | *Systemate* | *Mineralogico* | Rite Condendo, | à | Johan. Gotsch. Wallerio. | [...3 lines of titles and memberships...] | [ornate rule] | Holmiæ, | Impensis Direct. Laurent. Salvii, | MDCCLXVIII.

8°: A-K<sup>8</sup> L<sup>3</sup>; 80<sup>l.</sup>; [1]-158, [8] p.

CONTENTS: [1-2], Title page, verso blank; [3-4], Preface.; [5]-118, "D.D. | De | *Systematibus Mineralogicis*, & | *Systemate Mineralogico* rite | condendo."; [119]-158, "Sectio Posterior, | De | *Systemate Mineralogico* rite condendo."; [2 pgs], "Index Auctorum."; [6 pgs], "Index Rerum."



LUCUBRATIONUM ACADEMICARUM, 1768

VERY SCARCE. This work is divided into two sections. In the first, Wallerius has compiled a list of all the important systems of mineralogical classification from the birth of Christ down to his own time. Each system is described in detail and the author has occasionally added important notes as to the schemes merits. In the second section of the work, Wallerius describes what the characteristics of a good mineral system should be, using examples from the schemes described in the first part.

REFERENCES: *Berlinische Sammlungen*: 3, 649. • BL. • *Commentarii Lipsiæ*: 16, 225-32. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 2. • Hoover Collection: no. 859. • LKG: I 5 & XII 28. • NUC.

4884. 2nd edition, 1779: D.D. | Brevis Introductio | In | Historiam | Litterariam | Mineralogicam | Atque | Methodum | Systemata | Mineralogica | Rite | Condenda, | Una Cum | Supplementis; | A | Johan. Gotsch. Wallerio, | [...4 lines of titles and memberships...] | [rule] | Holmiæ, Upsaliæ & Aboæ, | In Officinis Libr. Reg. Ac. Bibliop. M. Swederi, | MDCCLXXIX.

8°: [A]-I<sup>8</sup> K<sup>7</sup> [L]-M<sup>8</sup> N<sup>5</sup>; 99<sup>l.</sup>; [1]-194, [4] p., index.

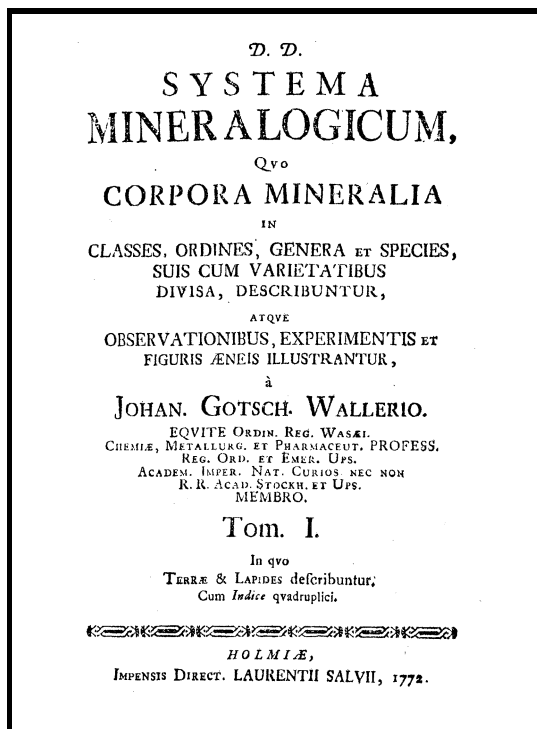
CONTENTS: [1-2], Title page, verso "Pleni numerisque Omnibus absoluti Systematis | mineralis ..."; [3]-[4], Preface, dated 20 February 1779.; [5]-118, "D.D. | De | *Systematibus Mineralogicis*, & | *Systemate Mineralogico* rite | condendo."; [119]-158, "Sectio Posterior, | De | *Systemate Mineralogico* rite condendo."; [159], "Supplementa."; [160], Blank.; [161]-187, "Supplementum | Ad | Sectionem Priorem."; 188-194, "Supplementum, | Ad | Sectionem Posteriorem."; [2 pgs], "Index Auctorum."; [2 pgs], "Catalogus Librorum, qui in Officinis | Librariis M. Swederi, Holmiæ, Upsa- | liæ & Aboæ, venales prostant."

VERY SCARCE. Uses the text of the 1768 edition, with a new title page and the use of a supplements to bring the

## WALLERIUS

work up to 1779.

REFERENCES: BL. • Dana's 7th (Bibliography): 83. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 3. • *Göttingische gelehrte Anzeigen*: 1779, p. 1213. • *L'Espirit des Journal*: (April, 1780), 410. • LKG: I 6 & XII 28. • NUC.



SYSTEMA MINERALOGICUM, 1772

4885. — Latin, 1772-5 [First edition].

D.D. | Systema | Mineralogicum, | Qvo | Corpora Mineralia | in | Classes, Ordines, Genera et Species, | Suis Cum Varietatibus | Divisa, Describuntur, | atqve | Observationibus, Experimentis et | Figuris Aeneis Illustrantur, | à | Johan. Gotsch. Wallerio. | [...6 lines of titles and memberships...] | Tom. I. [-II.] | In qvo | Terræ & Lapidés Describuntur. | Cum Indice quadruplici. | [ornate rule] | Holmiæ, | Impensis Direct. Laurentii Salvii, 1772 [-1775].

2 vols. [VOL 1: 1772] 8°: portrait, folding plates.; [VOL 2: 1775] 8°: folding plates VERY SCARCE.

REFERENCES: BL. • Dana's 7th (Bibliography): 83. • Gatterer, *Mineralogischen Literatur*, 1798-9. • LKG: XII 29. • NUC.

4886. 2nd edition, 1778: D.D. | Systema | Mineralogicum, | Qvo | Corpora Mineralia | in | Classes, Ordines, Genera et Species, | Suis Cum Varietatibus | Divisa | Describuntur, | atqve | Observationibus, Experimentis | et Figuris Aeneis Illustrantur, | à | Johan. Gotsch. Wallerio. | [...6 lines of titles and memberships...] | [rule] | Tom. I. | In Quo | Terræ et Lapidés Describuntur. | Cum Indice Quadruplici. | [rule] | Editio Altera Correcta. | [ornate rule] | Vindobonæ, | In Officina Krausiana, 1778.

[TITLE PAGE OF VOLUME 2 READS:]

D.D. | Systema | Mineralogicum, | ... | Tom. II. | In quo | Mineræ & Concreta describuntur. | Cum Indice quadruplici. | Editio nova & correcta. | Cum Priv. Ser. Elect. Saxoniae. | [double rule] | Viennæ | Ex Officina Krausiana, 1778.

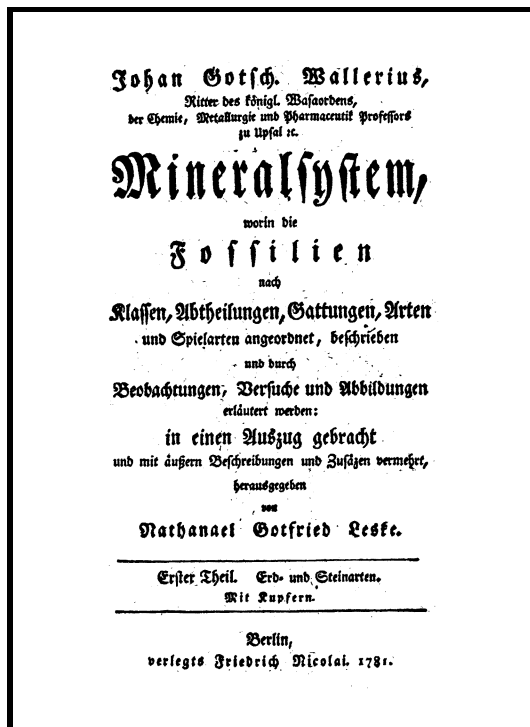
2 vols. [VOL 1] 8°: )(8 A-Z<sup>8</sup> 2A-2G<sup>8</sup> 2H<sup>2</sup>; 251ℓ.; [16], [1]-448, [38] p., frontispiece (portrait of Wallerius), one folding plate.; [VOL 2] 8°: )(6 A-Z<sup>8</sup> 2A-2V<sup>8</sup> 2X<sup>6</sup>; 341ℓ.; [12], [1]-640, [30] p., one folding plate. PAGE SIZE: 205 x 127 mm. VERY SCARCE.

CONTENTS: [Vol 1] [Frontispiece].; [2 pgs], Title page, verso "Baco. | ..."; [2 pgs], "Ad Lectorem."; [12 pgs], "Benevole Lector & Minerophile." [=preface].; [1]-448, Text.; [11 pgs], Latin name index.; [9 pgs], Swedish name index.; [8 pgs], French name index.; [8 pgs], German name index.; [2 pgs], "Explication | Figurarvm In Tabvla."; [At end], One folding plate.

[Vol 2] [2 pgs], Title page, verso "Magnarum Rerum etiam tenuis notita in | ..."; [10 pgs], "Benevole Lector & Minerophile."; [1]-640, Text.; [21 pgs], Latin name index. Volume 2.; [12 pgs], Swedish name index. Volume 2.; [12 pgs], Latin name index, part 2.; [13 pgs], German name index.; [1 pg], "Explication | Figurarvm In Tabvla II<sup>da</sup>."; [1 pg], Blank.; [At end], One folding plate.

PLATES: The frontispiece portrait of Wallerius is signed C. Schütz sc. 1777. It depicts Wallerius' profile within a circular frame set upon a pedestal. Wording at the base is: "Ioann Gotschalk Wallerius | Eques Ordin. Reg. Wafæi | Primas Chemicæ Metall. et Pharm. Professor Ups. MDCCCL. | Ac. Imp. Nat. Cur. et R.R. Acad. Stock. et Ups. Membrum. | Natus A°. MDCCIX." The two folding plates are unsigned and show various crystals and minerals.

REFERENCES: BL. • Dana's 7th (Bibliography): 83. • Gatterer, *Mineralogischen Literatur*, 1798-9. • Hoover Collection: no. 864. • LKG: XII 29. • NUC.



MINERALSYSTEM, WORIN DIE FOSSILIEN, 1781

**4887. German edition, 1781-3:** Johan Gotsch. Wallerius, | [...3 lines of titles and memberships...] | Mineralsystem, | worin die | Fossilien | nach | Klassen, Abtheilungen, Gattungen, Arten | und Spielarten angeordnet, beschreiben | und durch | Beobachtungen, Versuche und Abbildungen | erläutert werden: | in einen Auszug gebracht | und mit äußern Beschreibungen und Zusätzen vermehrt, | herausgegeben | von | Nathanael Gotfried Leske. | [rule] | Erster Theil. Erd- und Steinarten. | Mit Kupfern. | [rule] | Berlin, | verlegt Friedrich Nicolai. 1781.

[TITLE PAGE OF VOLUME 2 READS:]

Johan Gotsch. Wallerius, | [...3 lines of titles and memberships...] | Mineralsystem, | ... | und durch | Beobachtungen und Versuche | erläutert werden: | in einen Auszug gebracht | und mit Beschreibungen der äußern Kennzeichen | und Zusätzen vermehrt, | von | D. Ernst Benjamin Gottlieb Hebenstreit, | [...2 lines of titles and memberships...] | Zweite Theil. Erze und Steinwüchse. | Mit einem Kupfer. | [rule] | Berlin, | verlegt Friedrich Nicolai. 1783.

2 vols. [VOL 1: 1781] 8°: \*8 \*\*2 A-Z<sup>8</sup> 2A<sup>8</sup> 2B<sup>6</sup>; 208<sup>l.</sup>; [i]-xvi, [4], [1]-396 p., 3 folding plates (page 396 misprinted 936).; [VOL 2: 1783] 8°: \*8 \*\*2 A-Z<sup>8</sup> 2A-2N<sup>8</sup> 2O<sup>5</sup>; 298<sup>l.</sup>; [i]-xii, [8], [1]-572, [14] p. PAGE SIZE: 195 x 110 mm.

CONTENTS: [Vol 1] [i-ii], Title page, verso blank.; [iii], Dedication to Abraham Gottlob Werner, signed N.G. Leske.; [iv], Blank.; [v]-x, "Vorrede | des Herausgebers."; xi-xvi, "Verkürzte Vorrede | des | Verfassers."; [4 pgs], "Inhalt."; [1]-936 (i.e., 396), Text.; [At end], 3 folding plates.

[Vol 2] [i-ii], Title page, verso blank.; [iii]-xii, "Vorrede."—signed E.B.G. Hebenstreit.; [8 pgs], "Inhalt | des zweiten Bandes."; [1]-572, Text.; [14 pgs], "Deutsches | Wort- und Sachregister | über beide Bände."

VERY SCARCE. Volume one was translated by NATHANAELO GOTTFRIED LESKE and volume two was translated by Ernst Benjamin Gottlieb Hebenstreit [see note below].

REFERENCES: BL. • Gatterer, *Mineralogischen Literatur*, 1798-9. • NUC.

#### 4888. — Latin, 1780-1.

D.D. | Disputationum | Academicarum | Fasciculus Primus | continens | Physico Chemicas | et | Chemicas Pharmaceuticas | emendatas et correctas | nec non | necessariis observationibus et annotationibus illustratas | a | Joh. Gotsch. Wallerio, | [...6 lines of titles and memberships...] | [rule] | Holmiae et Lipsiae | Impensis Magni Swederi, | MDCCLXXX.

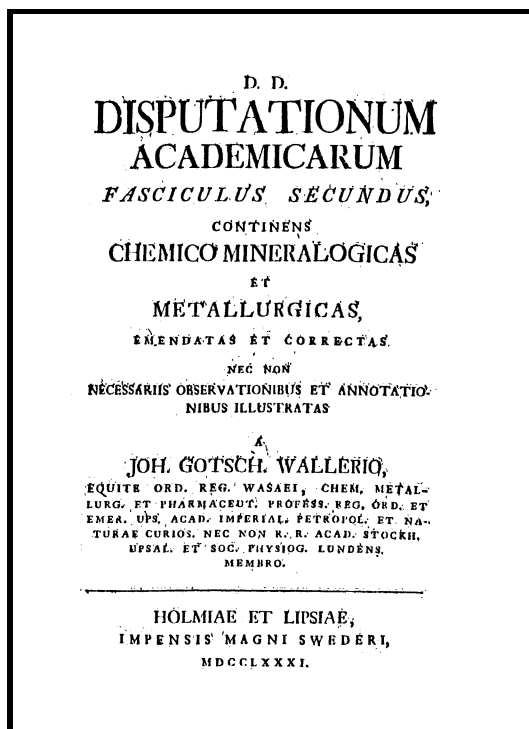
[TITLE PAGE OF VOLUME 2 READS:]

D.D. | Disputationum | Academicarum | Fasciculus Secundus | Continens | Chemicas Mineralogicas | et | Metallurgicas, | Emendatas Et Correctas | Nec Non | Necessariis Observationibus Et Annotationibus Illustratas | à | Joh. Gotsch. Wallerio, | [...6 lines of titles and memberships...] | [rule] | Holmiae Et Lipsiae, | Impensis Magni Swederi, | MDCCLXXXI.

2 vols. [VOL 1: 1780] 8°: \*4 A-Cc<sup>8</sup> Dd<sup>3</sup>; 215<sup>l.</sup>; [8], [1]-422 p. [VOL 2: 1781] 8°: \*2 A-Y<sup>8</sup> Z<sup>6</sup> Aa<sup>2</sup>; 185<sup>l.</sup>; [4], [1]-367, [1] p.

CONTENTS: [Vol 1] [2 pgs], Title page, verso quotation.; [2 pgs], "B.L."; [2 pgs], "Index Dissertationum."; [1 pg], Sectional title page.; [1 pg], Blank.; [1]-332, Text.; [333], Sectional title page.; [334], Blank.; [335]-422, Text.

[Vol 2] [2 pgs], Title page, verso blank.; [2 pgs], "Sequentes In Hoc Fasciculo Continentur Disputationes."; [1],



CHEMICO MINERALOGICAS, 1781

Sectional title page.; [2], Blank.; [3]-367, Text.; [1 pg], Imprint, "Lipsiae, Ex Officina Bretikopfiana."

VERY SCARCE. This is a partly collected dissertations of Wallerius. Many of the dissertations dealing with chemistry and mineralogy are collected in these volumes. Wallerius has corrected and added annotations as well as making new observations. The first volume deals primarily with chemical matters while the second volume has the mineralogical papers.

Contents, vol. 1: i De Principiis Corporum, p. i; ii De Salibus Alkalinis eorumque usu medico, p. 21; iii De Origine Salium Alkalinorum, p. 57; iv De Natura et Origine Nitri, p. 77; v De Origine Oleorum in Vegetabilibus, p. 117; vi De Differentia et Examine Oleorum, p. 134; vii De Dulcificatione Acidorum, p. 157 (in this, publ. in 1763, he questioned the real existence of true 'salt naphtha' (ethyl chloride), which had been noticed by G. F. Rouelle (see p. 73); Kopp, (1), iv, 310); viii De Materiali differentia Luminis et Ignis, p. 177; ix An Calor à Sole ?, p. z i2; x Animadversiones Chemicæ ad ictum Fulminis in Arce Regia Upsaliensi d. xxiv. Aug. 1760, p. 236; xi De Lapide Tonitruali, p. 264; xii De Indole Aquae mutabili, p. 276; xiii Qua Dubia quaedam, contra Transmutationem Aquarum mota, refelluntur, p. 302; xiv Continuatio Dissertationis, qua dubia quaedam, contra transmutationem Aquarum mota, refelluntur, p. 319. Sect. II. xv Censurae circa Praeparationem Medicamentorum Chemicorum, p. 335; xvi De incongrua Medicamentorum mixtura, p. 364; xvii De Cinnabaris in Corpus Humanum Effectu, p. 384; xviii Analysis et Synthesis Pulveris laxantis d'Ailhaud, p. 403.

Vol 2 i De Vegetatione mineralium, p. 3; ii De Palingenesia, p. 16; iii De diversitate Montium extrinseca, p. 38; iv De natura et indole Montium diversa, p. 53; v De origine Montium, p. 64; vi De incrementiis



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Montium dubiis, p. 75; vii De Montibus ignivomis, p. 86; viii De collibus ad Uddevalliam conchaceis, p. 107; ix De Gigantum reliquiis, p. 133; x Observationes mineralogicae ad plagam occidentalem sinus Bothnici, p. 150; xi De Tellure olim per ignem non fluida, p. 165. Sectio II continet Chemico-metallurgicas; xii De fatiscencia Corporum mineralium in aere, p. 187; xiii De Metallorum calcinatione in igne, p. 217; xiv De utilitate Tostionis mineralium metallicarum, p. 246; xv De ustulatione minerae ferreae, p. 258; xvi De fusionibus Mineralium metallicarum, p. 277; xvii De calcarei lapidis usu in fusionibus mineralium ferri, p. 292; xviii De nobilitate ferri, imprimis sueogothici, p. 305; xix De Patroni officinarum ferri necessaria inspectione in operationes metallurgicas, in officinas fusorii et malleatorii ferri, p. 324; xx De experimentis, pro facilitanda praecipitatione fusoria cupri e minera Magni Cuprimontii, frustra tentatis, p. 349.

REFERENCES: BL: [956.i.2.]. • Cole, *Chemical Literature*, 1988: no. 1330. • Gatterer, *Mineralogischen Literatur*, 1798-9. • Hoover Collection: no. 863. • LKG: VI 23a & XII 29. • NUC: [NW 0047388]. • Partington, *History of Chemistry*, 1961-70: 3, 170 VIII [Lists the contents of both volumes.].

**4889. 1779:** Meditationes physicochemicae de origine mundi, imprimis geocosmi ejusdemque metamorphosi. Stockholmiae et Upsaliae, 1779.

4°: VERY SCARCE.

German translation by C.F. Keller. Erfurt: 1782.

REFERENCES: BL: [990.e.11.]. • Gatterer, *Mineralogischen Literatur*, 1798-9. • LKG: XIII 100m. • NUC.

## 4890. — French, 1780.

De l'origine du monde, et de la terre en particulier; ouvrage dans lequel l'auteur developpe ses principes de Chymie et de Mineralogie ... Traduit par M. D\*\*. J. B. M., Conseiller de la Cour du Roi de Pologne, Membre de l'Académie des Sciences, Arts & Belles-Lettres de Dijon, etc. [i.e. Jean Baptiste Dubois]. Varsovie et Paris, 1780. 12°:

VERY SCARCE. Translated by trans. by Jean Baptiste Dubois de Janicigny.

REFERENCES: BL: [1507/1563.]. • Gatterer, *Mineralogischen Literatur*, 1798-9. • LKG: XIII 101n. • NUC.

## Dissertations

**4891. Dissertation, 1746:** J. G. W. ... försvars skrift, hvarutinnan J. J. Salbergs ... tal, hållit ... år 1745, besvaras, ang äende en del saltarter. Stockholm, [1746.]

[ANOTHER TITLE:]

Johan Julius. J. J. Salberg's ... Tal, hvaruti de inkast förläggas som äro gjorde emot des Rön om det i Sverie funna sal natron. Hållit för Kongl. Vetenskaps Akademien ... då han lade af sitt ... Præsidium.

4°: VERY SCARCE.

**Johan Julius Salberg.** (BORN: ; DIED: ) *Swedish.*

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REFERENCES: BL: [965.i.16.(18.)]. • Gatterer, *Mineralogischen Literatur*, 1798-9. • LKG: XVI 283a. • NUC. (**Salberg**)

**4892. Dissertation, 1749:** D.D. | Dissertatio Chemica, | De | Origine et Natura | Nitri, | Quam, | Consensu Ampliss. & Experientiss. | Facult. Med. in Regia Acad. Ups. | Præsidi | Joh. Gottschalko | Wallerio, | [...2 lines of titles and memberships...] | Publicæ disquisitioni subicit | Abraham Argillander, | Savolaxia Fenno. | In Aud. Carol. Maj. ad diem 16. Decemb. | Anni 1749. | H.A.M.S. | [double rule] | Upsaliae.

4°: 22 p. VERY SCARCE.

**Abraham Argillander.** (BORN: 1722; DIED: 1800) *Finnish chemist.*

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REFERENCES: BL: [B.583.(9.)]. • Gatterer, *Mineralogischen Literatur*, 1798-9. • NUC. (**Argillander**) *Finsk Biografisk Handbok.* • SBA: Scandinavian Biographical Archive: I B-012,403-404; B-012,407-409. • WBI.

**4893. Dissertation, 1750:** Inträdees-Tal | Om | Salternas Ursprung | Och Anledning, at utleta Orsaken | Til | Kallbräckt Järn. | Hållit I | Kongl. Vetenskaps Akademien | Af | Med. Doctoren och Adjunkten vid Kongl. | Akademien i Uppsala. | Samt Ledam Af Academien. Naturæ | Curiosorum | Herr Johan Gottschalk | Wallerius | [...2 lines of titles and memberships...] | [ornament] | [rule] | På Kongl. Vetenskaps Akademien befallning. | [way rule] | Stockholm, | Tryckt hos Lars Salvius.

4°: VERY SCARCE.

REFERENCES: BL: [965.i.11.(7.)]. • Gatterer, *Mineralogischen Literatur*, 1798-9. • LKG: VI 22. • NUC.

**4894. Dissertation, 1752:** J.F.F.Q.S. | Observationes | Mineralogicae | Ad Plagam Occidentalem | Sinus Bothnici | Factæ, | Qvas | Consensu Ampliss. Facultatis Philosoph. | In Illustri Academia Upsaliensi, | Moderante. | Viro Amplissimo atque Celeberrimo | D: no Joh. Gotschalck | Wallerio, | [...4 lines of titles and memberships...] | Pro Gradu Magisterii | Publice Examinandas Sistit | Ericus Hellberg. | Medelpadus. | In Audit. Carol. M. Ad Diem Maj. | Anni MDCCLII. | Horis Merid. Merid. Solitis. | [ornate rule] | Holmiæ, | Literis Laurentii Salvii.

4°: VERY SCARCE.

**Ericus Hellberg.** (BORN: ; DIED: ) *Swedish.*

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REFERENCES: BL: [B.229.(4.)]. • Gatterer, *Mineralogischen Literatur*, 1798-9. • LKG: XIV 786. • NUC. (**Hellberg**)

**4895. Dissertation, 1753:** Praes. Dissertatio om Quartz. Resp. Abr. Hedmann. Stockholm, 1753.

4°: VERY SCARCE.

**Abraham Hedmann.** . No information found.

REFERENCES: BL: [no copy listed]. • Gatterer, *Mineralogischen Literatur*, 1798-9. • NUC. (**Hedmann**) No references found.

**4896. Dissertation, 1755:** I.N.J. | Dissertatio Historico Metallurgica | De | Monte Argenteo | Occidentali, | Vulgo Dicto | Westra Silfberget, | Quam | Suffragante Ampliss. Senatu Philos. In | Regia Academia Upsaliensi, | Præsidi | Dn. Joh. Gotsch. | Wallerio | [...4 lines of titles and memberships...] | Publice Ventilandum Modeste Sistit | Jacobus Reinh. Lundh., | Dalekarlus. | In Auditorio Gust. Ad Diem XIX Marta. 1755. | Horis ante merid. consvetis. | [rule] | Holmiæ, E Typographia Regia.

4°: VERY SCARCE.

**Jacobus Reinhardus Lundh.** (BORN: ; DIED: ) *Swedish.*

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REFERENCES: BL: [B.231.(5.)]. • Gatterer, *Mineralogischen Literatur*, 1798-9. • LKG: XIV 787a. • NUC. (**Lundh**)

**4897. Dissertation, 1757:** [Unreadable text] | Disseratio Historico Metallica, | De | Cuprimontis | Falunæ | Oeconomia Prisca | Metallica, | Quam, | Consensu Ampliss. Facult. Philosoph. | In Regia Academia Upsaliensi, | Præsidi | Viro Celeberrimo | Dn. Johanne | Gotsch. Wallerio, | [...3 lines of titles and memberships...] | Pro Solitis In Philosophia Honoribus, | Publico Examine Submittit | Johannes E. Morænius, | Dalekarlus. In Audit. Carol. Maj. D. III. Decemb. Anni MDCCLVII. | H.A.M.S.

[ornate rule] | Upsaliæ, Excud. L.M. Hôjer, Reg. Acad. Typogr.

4<sup>o</sup>: [6], 57, [1] p. VERY SCARCE.

**Johan E. Moraenius.** (BORN: ; DIED: ) *Swedish.*

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BIOGRAPHY NEEDED  
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REFERENCES: BL: [RB.23.a.17631]. • Warmholtz, *Bibliotheca Sueo-Gothica*, 1782-1817: no. 1066. (**Moraenius**)

**4898. Dissertation, 1758:** Q.F.F.Q.S. | Disseratio Physica, | De | Origine | Montium, | Quam, | Suffrag. Ampliss. Facult. Philosoph. | In Reg. et Illust. Academia Upsaliensi, | Præsiede, | D: no Johanne | Gotsch. Wallerio, | [...3 lines of titles and memberships...] | Ad Diem VI. Maji, Anni MDCCLVIII. | In Auditorio Gustaviano, | H.A.M.S. | Pro Gradu Philosophico, | Eruditorum Examine Modeste Offert | Laurentius Ekstrand, | Nericius. | [ornate rule] | Upsaliæ, | Excud. L.M. Hôjer, Reg. Acad. Typogr.

4<sup>o</sup>: VERY SCARCE.

**Laurentius Ekstrand.** (BORN: ; DIED: ) . No information found.

REFERENCES: BL: [B.382.(1.)]. • Gatterer, *Mineralogischen Literatur*, 1798-9. • LKG: XIII 91c. • NUC. (**Ekstrand**) No references found.

**4899. Dissertation, 1759:** I.H.N. | Kort Afhandling, | Om | Malmförande | Bergs Egenskaper, | Med | Ampl. Fac. Phil. Samtycke | Under | Högädle och Vidtberömde, | Herr Doct. Johan | Gotsch. Wallerii, | [...3 lines of titles and memberships...] | Till Allmänt Ompröfvande Utgifven | Och Framstält, | Vid | Kongl. | Lärösätet i Upsala, | I Den Gustavianska Akademien | Den XXIII. Junii, Anno MDCCLIX. | Af Claes Fredric Scheffel, | Holmiensis. | [ornate rule] | Tryckt i Upsala.

4<sup>o</sup>: VERY SCARCE.

**Claes Fredric Scheffel.** (BORN: ; DIED: ) *Swedish.*

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BIOGRAPHY NEEDED  
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REFERENCES: BL: [B.382.(4.)]. (**Scheffel**)

**4900. Dissertation, 1757:** I.G.N. | Kort Afhandling, | Om | Malmgångars | Upsokande, | Med | Ampiss. Facult. Phil. Samtycke, | Under | Högädle Och Vidtberömde | Herr Doct. Johan | Gotsch. Wallerii, | [...3 lines of titles and memberships...] | Ut i Den Gustavianiska Låro-Salen | D. XVIII. Junii Ann. MDCCLVII. | Vid Kongl. Akademien i Upsala Utgifven och | till almänt. ompröfvande framstält, | Af | Jacob Leonhard Föman, | Värmelänning. | [wavy rule] | Upsala, | Tryckt hos Lor. Mag. Hôjer, Kongl. Acad. Boktr.

4<sup>o</sup>: VERY SCARCE.

**Jacob Leonhard Roman.** (BORN: ; DIED: ) *Swedish.*

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REFERENCES: BL: [B.398.(2.)]. (**Roman**)

**4901. Dissertation, 1759:** I.H.N. | Kort Afhandling, | Om | Malmgångars | Natur | Och | Beskaffenhet, | Med | Ampl. Fac. Phil. Samtycke, | Under | Högädle Och Vidtberömde | Herr Doct. Johan | Gotsch. Wallerii, | [...3 lines of titles and memberships...] | Ut i Den Gustavianiska Låro-Salen | D. XIV Maji, Ann. MDCCLVII. | Vid Kongl. Akademien i Upsala utgifven och | til alment ompröfvande-framstält, | af | Joan. Martinss. Hamberg, | Ångermanlänning. | [rule] | Upsala, Tryckt hos L.M. Hôjer, Kongl. Acad. Boktr.

4<sup>o</sup>: VERY SCARCE.

**Joannes Hamberg.** . No information found.

REFERENCES: BL: [B.231.(4.)]. • Gatterer, *Mineralogischen Literatur*, 1798-9. • LKG: XIII 88-90. • NUC. (**Hamberg**) No references found.

**4902. Dissertation, 1760:** Dissertatio Gradulis, | De | Lapide | Tonitruali, | Quam | Suffragio Ampliss. Senatus Philos. | In Illustri Academia Upsaliensi. | Moderante | Viro Amplissimo atque Celeberrimo | D: no Johanne | Gotsch. Wallerio, | [...3 lines of titles and memberships...] | Publicæ Disquisitioni Offert | Andreas Nic. Grönbergh | Ostro Gothus. | In Audit. Gustav. D. XII. Novembr. | Anni MDCCLX. | H.A.M.S. | [ornate rule] | Upsaliæ.

4<sup>o</sup>: 16 p. VERY SCARCE.

**Andreas Nic Grönbergh.** . No information found.

REFERENCES: BL: [RB.23.a.15031]. • Gatterer, *Mineralogischen Literatur*, 1798-9. • LKG: XVI 340. • NUC. (**Grönbergh**) No references found.

**4903. Dissertation, 1760:** Dissertatio gradualis de origine geocosmi ab aqua, .. quam ... sub præsidio ... Johannis Gotsch. Wallerii ... etuditorum [sic] examini ... offert, Jesperus Lundborg ... Upsaliæ, [1760].

4<sup>o</sup>: [2], 19, [1] p. VERY SCARCE.

**Jesperus Lundborg.** (BORN: ; DIED: ) *Swedish.*

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BIOGRAPHY NEEDED  
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REFERENCES: BL: [RB.23.a.15059]. • Gatterer, *Mineralogischen Literatur*, 1798-9. • NUC. (**Lundborg**)

**4904. Dissertation, 1760:** D.D. | Disseratio Physica, | De | Vestigiis | Diluvii | Universalis, | Quam, | Consensu Ampliss. Facult. Philosoph. | In Regia Academia Upsaliensi, | Sub Præsidiio | Viri Amplissimi atque Celeberrimi, | D: ni Johannis | Gotsch. Wallerii, | [...3 lines of titles and memberships...] | Publice Examinandam Sistit | Daniel Johan Lagerlöf, | Vermelandus. In Audit. Gustaviano D. XXV. Junii. | Anni MDCCLX. | Horis A.M. Solitis. | [ornate rule] | Upsaliæ.

4<sup>o</sup>: VERY SCARCE.

**Daniel Johan Lagerlöf.** (BORN: ; DIED: ) *Swedish.*

[  
BIOGRAPHY NEEDED  
]

REFERENCES: BL: [B.382.(12.)]. • Gatterer, *Mineralogischen Literatur*, 1798-9. • NUC. (**Lagerlöf**)

**4905. Dissertation, 1760:** Q.F.F.Q.S. | Dissertatio Gradualis, | De | Montibus | Ignivomis, | Quam | Suffragio Ampliss. Senatus Philosoph. In Illustri Academia Upsaliensi, | Moderante | Viro Amplissimo Atque Celeberrimo | D: no Johanne | Gotsch. Wallerio, | [...3 lines of titles and memberships...] | Bonorum Censuræ Submittit | Georgius Joh. Gerdin, | Jemtlandus. | In Audit. Gustav. D. XXIII. Decembr. | Anni MDCCLX. | H.A.M.S. | [ornate rule] | Upsaliæ.

4<sup>o</sup>: VERY SCARCE.

**Georgius Gerdin.** (BORN: ; DIED: ) . No information found.

REFERENCES: BL: [B.382.(5.)]. • Gatterer, *Mineralogischen Literatur*, 1798-9. • NUC. (**Gerdin**) No references found.

**4906. Dissertation, 1760:** Specimen academicum, de diversitate montium extrinseca, .. quod ... præside ... Johanne Gotsch. Wallerio ... publico examini ... submittit, Thomas Gust. Bjurling ... Upsaliæ, [1760.]

4<sup>o</sup>: [4], 10 p. VERY SCARCE.

**Thomas Gustav Bjurling.** . No information found.

REFERENCES: BL: [RB.23.a.15024]. • Gatterer, *Mineralogischen Literatur*, 1798-9. • Lidén, *Catalogus Disputationum*, 1778-80: p. 512. • LKG: XIII 93e. • NUC. (**Bjurling**) No references found.

**4907. Dissertation, 1761:** Summo Favente Numine | Dissertatio Gradualis, | De | Diluvio | Universali, | Quam, | Consens. Ampliss. Senat. Philosoph. | In Reg. Et Illust. Ad Salam Academia, | Sub Præsidiio | Viri Amplissimi Et Celeberrimi, | D: ni Johannis | Gotsch. Wallerii, | [...3 lines of titles and memberships...] | Membri, | Publice Ventilandum Sistit | Æstanus Pet. Harlin, | Ångermannus.

# WALLIS

| In Aud. Gustav. Die XXVIII Februarii | Anni MDCCLXI.  
| H.A.M.S. | [ornate rule] | Upsaliæ.  
4°: 19, [1] p. VERY SCARCE.

**Petrus Harlin.** (BORN: 1705; DIED: 1761) *Swedish clergyman.*

REFERENCES: BL: [RB.23.a.14865]. • Gatterer, *Mineralogischen Literatur*, 1798-9. • LKG: XIII 97i. • NUC. (**Harlin**) SBA: Scandinavian Biographical Archive: I B-107, 449. • WBI.

**4908. Dissertation, 1761:** D.D. | Dissertatio Gradulis, | De | Mutatatacie | Telluris, | Qvam, | Consent. Ampliss. Facult. Philosoph. | In Regia Academia Upsaliensi | Præsode. | Viro Celeberrimo atque Experientissimo | D:ni Joh. Gotsch. | Wallerio, | [...3 lines of memberships and titles...] | Publico Examine Modeste Submittit | Stipendiarius Regius | Ericus Sv. Wagenius, | Jemtlandus. | In Audit. Gustav. Ad Diem [ XXI ] Febr. | Anni MDCCLXI. | H.A.M.S. | [ornate rule] | Strengnesiæ, | Impress. a Laur. Arr. Collin.  
4°: 10 p. VERY SCARCE.

**Ericus Sv. Wagenius.** (BORN: ; DIED: ) *Swedish.*

[ BIOGRAPHY NEEDED ]

REFERENCES: BL: [RB.23.a.14870]. • Gatterer, *Mineralogischen Literatur*, 1798-9. • NUC. (**Wagenius**)

**4909. Dissertation, 1761:** D.D. | Dissertatio Physica, | De | Incrementis | Montiumdubiis, | Qvam, | Supfrag. Ampliss. Facult. Philosoph. | In Illustri Academia Upsaliensi, | Sub Præsidio, | Viri Amplissimi Atque Celeberrimi, | D:ni Joh. Gotschalk | Wallerii, | [...3 lines of titles and memberships...] | Pro Gradu Philosophico, | Publicæ Disquisitioni Submittit, | Petrus Elavi Friesendahl, | Angermannus. | Ad Diem Martii Anni MDCCLXI. | In Auditorio Gustaviano, | H.A.M.S. | [ornate rule] | Upsaliæ.  
4°: VERY SCARCE.

**Petrus Friesendahl.** (BORN: ; DIED: ) . No information found.

REFERENCES: BL: [B.382.(3.)]. • Gatterer, *Mineralogischen Literatur*, 1798-9. • LKG: XIII 95g. • NUC. (**Friesendahl**) No references found.

**4910. Dissertation, 1763:** Dissertatio de Vegetatione Mineralium. Respondente Zetterberg. Upsaliæ, 1763.

4°: VERY SCARCE.

( ) **Zetterberg.** (BORN: ; DIED: ) *Swedish.*

[ BIOGRAPHY NEEDED ]

REFERENCES: BL: [no copy listed]. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 248-9. • NUC. (**Zetterberg**)

**4911. Dissertation, 1764:** Dissertatio de ditiis in arena. Respondente Borg. Upsaliæ, 1764.

4°: 16 p. VERY SCARCE.

( ) **Borg.** (BORN: ; DIED: ) *Swedish.*

[ BIOGRAPHY NEEDED ]

REFERENCES: BL: [no copy listed]. • Gatterer, *Mineralogischen Literatur*, 1798-9. • Lidén, *Catalogus Disputationum*, 1778-80: p. 514. • NUC. (**Borg**)

**4912. Dissertation, 1764:** S.N.J. | Dissertatio Academica, | Brevi Adumbrans | Colles | Ad | Uddewalliam | Conchaceos | Quam, | Ad Illustre Upsal. Athenæum | Adsent. Ampliss. Ord. Philosophico, | Præside, | Viro Amplissimo Celeberrimo Qve | D:o Joh. Gotschalk | Wallerio, | [...4 lines of titles and memberships...] | In Auditorio Gustav. Die XXVII April. | Horis Ante Meridiem Consuetis, | Anni MDCCLXIV. | Publico Examine Defert, | Pro Gradu, | Olavus Bruhn, | Gothoburgensis. | [rule] | Upsaliæ.  
4°: 20 p. VERY SCARCE.

**Olavus Bruhn.** . No information found.

REFERENCES: BL: [117.n.27.]. • Gatterer, *Mineralogischen Literatur*, 1798-9. • NUC. (**Bruhn**) No references found.

**4913. Dissertation, 1764:** D.D. | Disseratio Historico-Mineralogica | De | Aurifodina | Adelfors. | [double rule] | Qvam, | Suffragio Ampliss. Facult. Philos. | Ad Regium Lyceum Upsal. | Præside | Viro Amplissimo Atque Celeberrimo, | D:o Joh. Gotschalk | Wallerio, | [...4 lines of titles and memberships...] | In Audit. Gustaviano Die XIV Junii, | Anni MDCCLXIV. | H.P.M.S. | Pro Laurea Exhibet | Johannes Colliander. | Smolandus. | [rule] | Upsaliæ.

4°: 26 p., plates. VERY SCARCE.

**Joannes Colliander.** (BORN: ; DIED: ) *Swedish.*

[ BIOGRAPHY NEEDED ]

REFERENCES: BL: [B.370.(4.)]. • Gatterer, *Mineralogischen Literatur*, 1798-9. • LKG: XIV 788b. • NUC. (**Colliander**)

**4914. Dissertation, 1766:** I.H.N. | Kort Afandling | Om | De Mineraliske | Kroppars | Förvittring, | I Luften, | Med | Ampliss. Facult. Phil. Samtyck. | Under | Hogadle Och Vidtberomde | Herr Joh. Gotsch. | Wallerii, | [...8 lines of titles and memberships...] | Af | Stipendiarius Ahlövvoamis | Anders Nejman Andersson, | Vestmanlänning. | [rule] | Upsala.  
4°:

VERY SCARCE. Dissertation — Anders Nejman Andersson, respondent.

**Anders Nejman Andersson.** (BORN: ; DIED: ) *Swedish student.* No information found.

REFERENCES: BL: [B.240.(6.)]. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 249. • *Göttingische gelehrte Anzeigen*: 1767, 1144. • NUC. (**Andersson**) No references found.

## 4915. — Latin, 1768.

... Elementa metallurgiae speciatim chemicae conscripta atque observationibus, experimentis et figuris aeneis illustrata à Johan, Gotsch. Wallerio . Holmiae [Stockholm] : Impensis Carol. Abr. Askergren. Bibliop. Stockh. Literis Johan. Edman Typogr. R. Acad. Upsal, 1768.

[18], 440 p., [1] fold. leaf of plates : ill. ; 20 cm. With: ... Lucubrationum academicarum specimen p : um de systematibus mineralogicis ... Johan Gottschalk. Holmiae : Impensis direct. Laurent Salvii, 1768. With: ... Lucubrationum academicarum specimen p : um de systematibus mineralogicis ... / VERY SCARCE.

**WALLIS, John.** (BORN: Castlenook, Northumberland, England, 1714; DIED: Norton, Northumberland, England, 19 July 1793) *English antiquarian.*

Wallis graduated from Queen's College, Oxford, with his B.A. in 1737, followed by his M.A. in 1740. He afterwards became curate of Simonburn, Northumberland, where he began to collect material that described the natural history of the area. In 1792, due to infirmity, he retired. After his death the next year he left a small but valuable library of works, mainly on natural history.

REFERENCES: Allibone, *Dictionary of English Literature*, 1859-71. • BBA: I 1127, 318-329. • DNB: 59, p. 145. • *Gentleman's Magazine*: 1793, 2, p. 769 [obituary]. • Poggendorff: 2, cols. 1253-5. • Watt, *Bibliotheca Britannica*, 1824. • WBI.

**4916. — English, 1769.**

The Natural History and Antiquities of Northumberland: and so much of the County of Durham as lies between the Rivers Tyne and Tweed; Commonly called North Bishoprick ... By John Wallis ... London, Printed for the Author, by W. and W. Strahan, 1769.

2 vols. [VOL 1] 4°: xxvii, 438, [8] p. [VOL 2] 4°: iv, 562, 22, [2] p. PAGE SIZE: 270 x 210 mm.

RARE. The author, a native of Northumberland, became a historian of the county. Over the course of twenty years he collected material for his history of the region including botanical and mineral products. He published his account in 1769. The first volume deals with minerals, fossils, plants, and animals of the county, while the second covers the antiquities, arranged as three tours throughout the county.

**Contents:** Vol 1: Heavens and Air; Waters; Earths; Sand; Stones; Fossil-shells; Ores; Trees and plants; Birds; Insects and reptiles; Fishes; Quadrupeds; Eminent Men.

Vol 2: Antiquities; Three Journeys; Bookplate of William Wilshire. John Wallis, was the curate at Bellingham. Roman history on Chesters and environ as well as notable Northumbrian names: Blackett, Ridley, Gibson, Ord, Walton, Cresswell, etc.

REFERENCES: BL. • Dryander, *Catalogus Banks*, 1796-1800: 1, p. 438. • LKG: XIV 425. • NUC: 646, p. 599 [NW 0049032].

**WALTER, Georg.** *German naturalist.*

Walter was an instructor at the Realschule in Offenbach.

**4917. — German, 1858.**

Das | Mineralreich, | Oryklognosie und Geognosie, | ein naturgeschichtliches Lehr= und Lesebuch | von | Georg Walter, | Lehrer an der Realschule zu Offenbach | und | Dr. W.J.G. Curtman, | Director des Schullehrer=Seminard zu Freiberg. | [ornate rule] | Mit 258 in den Text eingedruckten Abbildungen. | [ornate rule] | Darmstadt, 1858. | Verlag von Johann Philipp Diehl.

8°: iv, 298 p. Co-authored with Wilhelm Jacob Georg Curtman [1802-1871]. SCARCE.

REFERENCES: BL: [7105.bb.39].

**WANG, Ch'ung-Yu.****4918. — English, 1909** [First edition].

Antimony: Its History, Chemistry, Mineralogy, Geology, Metallurgy, Uses, Preparations, Analysis, Production, And Valuation; With Complete Bibliographies. For Students, Manufacturers, And Users Of Antimony. By Chung Yu Wang ... With numerous illustrations. London, C. Griffin & Company Limited, 1909.

8°: x, 217 p., illus., plates, 2 folding tables. SCARCE.

REFERENCES: NUC.

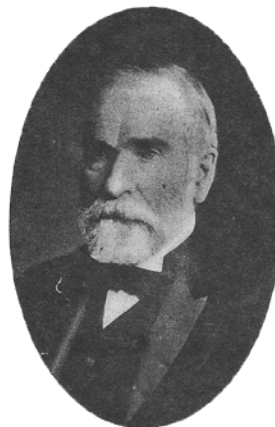
**4919. Second edition, 1919:** Antimony: | Its History, Chemistry, Mineralogy, Geology, | Metallurgy, Uses, Preparations, Analysis, | Production, And Valuation; With | Complete Bibliographies. | For Students, Manufacturers, And | Uses Of Antimony. | By | Chung Yu Wang, M.A. B.Sc., | [...4 lines of titles and memberships...] | With numerous illustrations. | Second Edition. | [ornament] | London: | Charles Griffin & Company, Limited, | Exeter Street, Strand, W.C. 2. | 1919.

8°: [i]-x, 1-217 p., illus., biblio.

**CONTENTS:** [i-ii], Half title page, verso blank (?missing from copy examined); [iii-iv], Title page, verso blank; [v], Dedication to James Furman Kemp.; [vi], Blank.; vii-viii, "Preface."—signed C.Y. Wang, 1919.; ix-x, "Table of Contents."; 1-207, Text.; 208-217, "Index."

**SCARCE.** Apparently, this is a reprint of the first edition of 1909. A detailed discussion of the element antimony, covering its history, chemistry, mineralogy, geology, metallurgy, uses, preparations, analysis, production, and valuation, with complete bibliographies.

REFERENCES: NUC.



WARD

**WARD, Henry Augustus.** (BORN: Rochester, New York, U.S.A., 9 March 1834; DIED: Buffalo, New York, U.S.A., 4 July 1906) *American naturalist & explorer.*

Ward had an excellent mind and an adventurous nature, and his interests in natural science took him to Harvard and the Paris School of Mines. He began to collect geological specimens and soon was traveling from Europe to Africa, to visit many localities. He became especially interested in meteorites. Returning to Rochester in 1860, he taught natural science at the University of Rochester, until he founded in 1862 Ward's Natural Science Establishment, through which he marketed natural history specimens. This firm still exists till today. Ward died as the result of being struck by an automobile.

REFERENCES: ABA: I 1682, 1-7, 337-339; II 652, 182. • Adams, *Dictionary of American Authors*, 1904. • Appleton *Cyclopedia of American Biography*. • Cleevely, *World Palaeontological Collections*, 1983: p. 302. • DAB: 10, 421-2. • Fairchild, H. le Roy. "Henry Augustus Ward," *Proceedings of the Rochester Academy of Science*, 5 (1919), 241-51, portrait. • *Herringshaw's National Library of American Biography*. • Internet search. • *Mineral Collector*: 13 (Aug., 1906), portrait. • *Mineralogical Magazine*: 14 (1907), 273-4. • *National Cyclopedia of American Biography*. • Sarjeant, *Geologists*, 1980: 3, 2376. • *Science*: N.S., 24 (1906), 153-4. • Strong, A.H., "Henry A. Ward:

## WARLITZ

Reminiscences and Appreciation, (1922)," *Journal of the Society of the Bibliography of Natural History*, 9 (1980), no. 4, 647-61. [Detailed account and references.]. • Ward, Roswell, Henry A. Ward. *Museum Builder to America by Roswell Ward*. Rochester & New York, 1948. • WBI. • *Who Was Who in America*.

### 4920. — English, 1863.

Notice of the Ward cabinets of mineralogy and geology, lately presented to the University of Rochester. Rochester, N.Y., Book Press of Benton & Andrews, 1863.

8°: 44 p., frontispiece, illus. Yellow printed wraps.

VERY RARE. This interesting guide to a pioneering American museum of fossils, minerals and geological specimens was limited to a press run of 50 copies. It describes the recently donated Ward cabinets that filled fourteen rooms in the University of Rochester. All of the material of which these cabinets was composed, having been collected by Henry Ward. At the time it was considered one of the largest collections of its type in America.

REFERENCES: BMC: 5, 2263. • Meisel, *American Natural History*, 1924-9: 3, p. 319. • NUC.

### Catalogs of Minerals

#### 4921. — English, 1878 [First edition].

Catalogue of minerals; in systematic collections, or as single specimens. Rochester, Ward's Natural History Establishment, 1878.

8°:

VERY RARE. This is the earliest catalog of minerals that has been traced and is therefore assigned as the first published by this old-time mineral dealer.

REFERENCES: NUC. • *USGS Library Catalog*.

**4922. 2nd edition, 1880:** Catalogue of Minerals, Second edition. Rochester (New York), Ward's National Science Establishment, 1880.

8°: 63 p., illus. PAGE SIZE: 228 x 152 mm.

VERY SCARCE. Lists all sorts of mineral collections available from this famous scientific supply house, including properties, crystal models, general mineral list, models of famous gems, gold nuggets, meteorites, etc.

REFERENCES: NUC.

**4923. 3rd edition, c1892:** Catalogue of Minerals, in Systematic Collections, or as Single Specimens ... Rochester, [Printed by R.W. Lacey for Ward's, [c1892].

8°: viii, 159 p. RARE.

REFERENCES: NUC.

**4924. c1940:** The Frank A. Ward Foundation of Natural Science of the University of Rochester, General Catalogue for Human Anatomy, Comparative Anatomy, Zoology, Entomology, Paleontology, Geology, Mineralogy. Rochester, Ward' Natural Science Establishment, Inc., n.d.

8°: 216 p. VERY SCARCE.

REFERENCES: NUC.

### Catalogs of Rocks

**4925. 2nd edition, 1902:** Catalogue of a Genetic Collection of Rocks and Collection of Rock Forming Minerals. Rochester, Ward's Natural Science Establishment, 1902.

8°: v, [44] p. RARE.

REFERENCES: NUC.

**4926. 1914:** Genetic Collection of Rocks and Collection of Rock-Forming Materials. Rochester, Ward's Natural Science Establishment, 1914.

8°: 43 p. RARE.

REFERENCES: NUC.

#### 4927. — English, 1892 [Collection catalog].

Illustrated Descriptive Catalogue of Meteorites. Rochester, N.Y., 1892.

8°: iv, 75 p., illus. VERY RARE.

REFERENCES: BMC: 8, 1393.

### Ward-Coonley Meteorite Collection

#### 4928. — English, 1900.

The Ward-Coonley collection of meteorites. Chicago, 1900.

8°: iv, 100 p., 6 plates.

RARE. Henry Ward had been collecting meteorites for several decades, when in 1897 his wealthy wife Lydia Coonley Ward and the noted mineral collector Clarence Bement purchased a fine collection of meteorites. However, within a short interval, Avery Coonley, Henry's stepson bought out Bement's interest. Henry was then given the authorization and resources to transform the accumulation into a major meteorite collection. Thus began the genesis of the Ward-Coonley collection, which formation is fully described by Burke (1986). By 1900 the collection numbered 424 specimens, and in April, 1901, Ward signed an agreement with the American Museum of Natural History in New York City for first right of refusal, although Ward had to pay for the transportation costs and arrange for display cabinets. There, the meteorites sat on display for years, but the museum did not exercise its option. After Ward's sudden death, his widow arranged for the collection's sale to the Field Museum of Natural History in Chicago, Illinois, where it formed the nucleus of their fine meteoritic holdings.

REFERENCES: BMC: 8, 1393. • Brown, *Bibliography of Meteorites*, 1953: no. ?? . • Burke, *Cosmic Debris*, 1986: p. 204-9. • NUC. • *USGS Library Catalog*.

**4929. 1901:** The Ward-Coonley collection of meteorites. Chicago, 1901.

8°: iv, 28 p., illus. RARE.

REFERENCES: BMC: 8, 1393. • Brown, *Bibliography of Meteorites*, 1953: no. ?? . • NUC. • *USGS Library Catalog*.

**4930. 1904:** Catalogue of the Ward Coonley collection of meteorites. Chicago, [Marsh, Aitken & Curtis Co., Printers], 1904.

8°: xii, 113 p., frontispiece, 9 plates, illus. RARE.

REFERENCES: BMC: 5, 2263. • Brown, *Bibliography of Meteorites*, 1953: no. ?? . • NUC. • *USGS Library Catalog*.

**WARLITZ, Christian.** (BORN: 1648; DIED: 1717) *German physician*.

Warlitz was a professor of medicine at the University of Wittenberg.

REFERENCES: ADB. • DBA: I 1333, 31-32. • Jöcher, *Gelehrten-Lexikon*, 1750-51. • WBI.

#### 4931. — German, 1702 [Collection catalog].

Museum Curiosum: oder Beschreibung derer raren und ausländ. Sachen so bey Herrn Gottfried Nicolai, wohl-meritirten Stadt-Richter u. vornehmen

Apothekern alhier befinde. untersucht von Christian Warlitzten ... Wittenberg, Nicolai, 1702.

4°: [35] p.

VERY RARE. A description of the rare and exotic specimens contained in the cabinet of Gottfried Nicolai, a Wittenberg apothecary. Like most collections of the time, it contained animal, vegetable and mineral specimens.

**Reprinted, 1714:** Contained in Michael Bernhard Valentini's, *Museum Museumum*, part 2 (1714), Appendix, p. 81.

**REFERENCES:** BL: [no copy listed]. • Boehmer, *Bibliotheca Historiae Naturalis*, 1785-9: 1, 383. • Murray, *Museums*, 1904: 3, 259.

**4932. — German, 1710** [Sale catalog].

Museum Curiosum | Avctvm | Oder | Neu=Verbesserte | Beschreibung | Derer raren und Ausländischen | Sachen/ | So vorietzo guten Theils vermehrt zu befinden | Bey | Tit. | Herrn | Christian Nicolai, | Vornehmen Apothekern allhier/ | untersuchte und erläutert | Von | D. Christian Warlitzten/ | Der Medicin Professore P.E. auch Hochfürstl. Sächs. | und Anhält. Leib=Medico. | [rule] | Wittenberg, | mit Kreisigischen Schrifften.

4°: 56 p.

RARE. **REWORK COMMENTARY:** Appently an expanded description of the cabinet of Christian Nicolai. The collection described in this auction catalog is an interesting example of a natural history Wunderkammer, catalogued in great detail by Warlitz. Classified into animal, vegetable and mineral sections the collection starts, in the classic style, with a human skeleton, a mummified head and funerary urns, gall stones and bezoars, various horns and skulls, including a hippopotamus, and various marine teeth. The vegetable section includes coconuts and datura nuts, ipecacuana root from Brazil and the 'serpentaria Virginiana' recommended by Robert Boyle for the tertian-fever. The minerals include amber, a fossil unicorn, specimens of coral and a piece of terra Melitensi or 'Malta earth'. The whole collection has a pharmaceutical air about it and the specimens were clearly selected as curiosities and wonders of nature from the more outlandish corners of the materia medica. Warlitz provides an extensive list of names of all the authors he has consulted and interesting notes on each item with reference to the printed catalogues of earlier Wunderkammern which contained comparable specimens.

**REFERENCES:** BL: [462.c.30.]. • Boehmer, *Bibliotheca Historiae Naturalis*, 1785-9: 1, 383. • Cobres, *Deliciae Cobresianae*, 1782: 1, 118, no. 7. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 259. • Murray, *Museums*, 1904: 3, 259. • *Wunderkammer to Museum*: no. 45.

**WARREN, Charles Hyde.** (BORN: 1876; DIED: ) *American mineralogist & petrologist.*

**REFERENCES:** ABA: I 1686, 329-332; II 653, 425-427. • American Men of Science, 1st edition (1906). • WBI. • *Who Was Who in America*: 3, ??.

**4933. — English, 1922** [2nd edition].

A Manual Of | Determinative | Mineralogy | By | Charles H. Warren, Ph.D. | [...2 lines of titles and memberships...] | Second Edition | McGraw-Hill Book Company, Inc. | New York: 370 Seventh Avenue | London: 6 & 8 Bouverie St., E.C. 4 | 1922.

8°: [i]-ix, [1], [1]-163, [1] p., one illus., tables. PAGE SIZE: 182 x 122 mm.

**CONTENTS:** [i-ii], Half title page, "A Manual Of | Determinative | Mineralogy," verso "McGraw-Hill Book Co., Inc."; [iii-iv], Title page, verso "Copyright..."; v, "Author's Note."; vi, "Author's Note To Second Edition."; vii, Abbreviations.; [viii], Blank.; ix, "Contents."; [1 pg], Blank.; [1]-154, Text.; 155-163, "Index."; [1 pg], Blank.

**SCARCE.** The author, a professor of mineralogy at the Massachusetts Institute of Technology, wrote this work to accompany his lectures on determinative mineralogy. The text covers the use of the blowpipe, simple tests for the elements, tabulated lists of reactions, and various information in a series of tables used in the determination of mineral species.

**WARREN, Erasmus.** (BORN: ; DIED: 1718) *English theologian.*

**REFERENCES:** BBA: I 1135, 324. • Watt, *Bibliotheca Britannica*, 1824. • WBI.

**4934. — English, 1690** [First edition].

Geologia: or, a Discourse Concerning the Earth before the Deluge. Wherein the Form and Properties ascribed to it, in a Book intituled The Theory of the Earth, are Excepted against; And it is made appear, That the Dissolution of that Earth was not the Cause of the Universal Flood. Also a New Explication of that Flood is attempted. London, R. Chiswell for J. Southby, 1690.

8°: [15], 359, [1] p., 4 text illus.

VERY SCARCE. Warren "was a rector who was more than a little perturbed by Burnet's cavalier treatment of the Mosaic writings. In responding to Burnet, Warren insisted that Genesis be taken literally...Warren maintained that God created the earth with its present form, and he defended the beauty of mountains against Burnet's diatribes. Getting into the scientific spirit, Warren even tried to show that there were mechanical problems with Burnet's hypothesis and that the earth could not possibly dry and crack in the manner he advocated."—Linda Hall Library, *Theories of the Earth 1644-1830* (1984), 8.

**WATSON, John Forbes.**

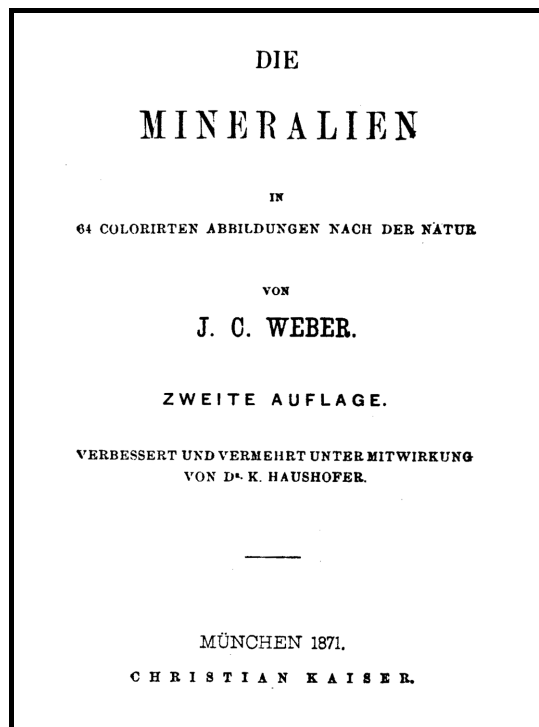
**4935. — English, 1876** [Collection catalog].

A classified and descriptive catalogue of the collections selected from the India Museum and exhibited in the Indian department of the Philadelphia Centennial Exhibition of 1876 by J. Forbes Watson. London, India Museum, 1876.

## WEBSKY

8°: 40 p., one plate, plan. Two columns to the page. VERY SCARCE.

REFERENCES: BL. • NUC.



DIE MINERALIEN, 1871

**WEBER, Johann Carl.** (BORN: Augsburg, Germany, 1801; DIED: 1875) *German naturalist.*

REFERENCES: ADB. • Nissen (BBI): nos. 2119-2120. • Nissen (ZBI): nos. 4350-4351.

**4936. — German, 1871** [2nd edition].

Die | Mineralien | In | 64 Colorirten Abbildungen Nach Der Natur | Von | J.C. Weber. | Zweite Auflage. | Verbessert Und Vermehrt Unter Mitwirkung | Von Dr. Karl Haushofer. | [rule] | München, 1871. | Christian Kaiser.

12°: [1]-99, [1] p., 64 chromolithographic plates (showing mineral specimens). PAGE SIZE: 128 x 84 mm.

CONTENTS: [1-2], Title page, verso "Akademische Buchdruckerei von F. Straub in München."; [3]-5, "Vorwort."; [6]-94, Text.; [95]-99, "Register."; [1] pg, Blank.

RARE. According to the title page, this second edition of the work has been improved by Karl Haushofer [see note below], and has been enlarged to include those minerals found in the alpine regions. After a short introduction the described mineral species are arranged according to Kobell's *Mineralogie* (3rd ed., Leipzig, 1864). Each of these is then illustrated as one or two figures on one of the 64 chromolithographic

plates that are scattered throughout the volume. These plates are apparently unique to the work and were not reproduced elsewhere; however, they are not depictions of the best quality and have an amateurish look about them.

According to the preface the first edition of this work appeared under the title, *Die Mineralien Baiern's und beschränkt sich auf Mineralien und Gesteine dieses Landes* (München, c1850), which described the minerals found in Bavaria. However, no copy of this book has been traced. Perhaps this first appearance was included as a section in some other unknown natural history work, or is part of the unpublished two volume monograph *Abbildungen von Pflanzen, Insekten und Mineralien in München* cited by Nissen (BBI, no. 2120). In its second edition, *Die Mineralien in 64 colorirten Abbildungen* appears to be a companion volume to Weber's *Die Alpen-Pflanzen Deutschlands und der Schweiz in colorirten Abbildungen nach der Natur und in natürlicher Grösse* (3rd ed., München, 1872, 4 vols., 400 color illus.).

**Karl Haushofer.** (BORN: Munich, Bavaria, Germany, 28 April 1839; DIED: Munich, Bavaria, Germany, 9 January 1895) *German mineralogist.* Haushofer graduated from the University of Munich in 1864 with his Ph.D. From 1865 to 1868 he was a docent at the University, then he was named a professor extraordinary of the Polytechnicum. He was a member of the Academy of Science in Munich.

REFERENCES: BL. • *Katalog Bergakademie Freiberg*, 1879: [no copy listed]. • Nissen (BBI): no. 2120. • NUC: 652, 254 [NW 0134589]. (**Haushofer**) Grundmann, G., "Karl von Haushofer (1839-1895), erster Mineraloge des königlichen Polytechnikums München," in: Geofa Fachmesse, ed., *Offiz. Katal. 25. Mineralientage Muenchen 'Wer sammelt, macht Geschichte'*, München 1988, 106-107, portrait. • Poggendorff: 3, 597-8.

**WEBSKY, Christian Friedrich Martin.** (BORN: Wüstegiersdorf, Kreis Waldenburg, Schles, Germany, 17 July 1824; DIED: Berlin, Germany, 27 November 1886) *German mineralogist.*

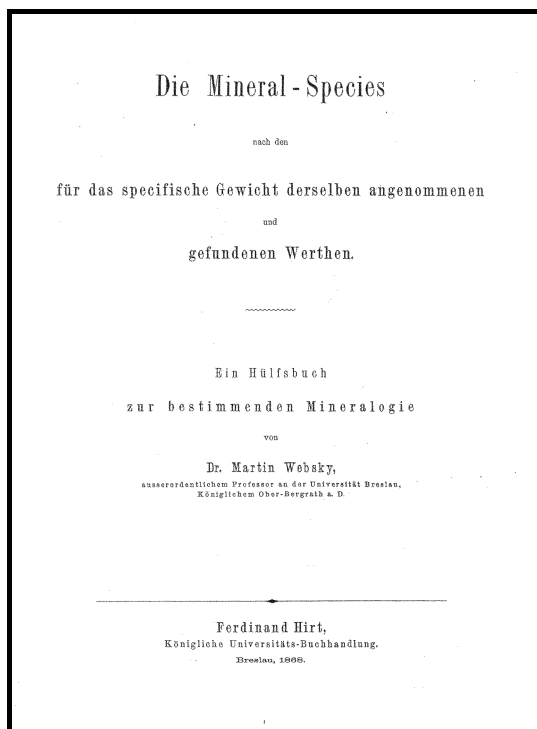
Received an honorary Ph.D. from the University of Breslau, 1864. Appointed chief mining advisor in Breslau, 1861, Websky became a Privatdocent in mineralogy, 1865. He then advanced to professor extraordinaire of mineralogy at Breslau in 1868 and professor ordinary at the University of Berlin in 1873. Member of the Berlin Academy of Science, 1875.

REFERENCES: ADB: 41, 363-4. • DBA: I 1335, 246; 1337, 362; II 1372, 191-195. • Poggendorff: 2, col. 1276, 3, 1423-4 & 4, 1604. • Sarjeant, *Geologists*, 1980: 3, 2390. • Schaedler, *Biographisch Handwörterbuch*, 1891: 147. • WBI.

**4937. — German, 1868.**

Die Mineral – Species | nach den | für das spezifische Gewicht derselben angenommen | und | gefundenen Werthen. | [ornate rule] | Ein Hilfsbuch | zur bestimmenden Mineralogie | von | Dr. Martin Websky, | ausserordentlichem Professor an der Universität Breslau, | Königlichem Ober-Bergrath a.D. | [ornate rule] | Ferdinand Hirt, | Königliche Universitäts-Buchhandlung. | Breslau, 1868.

8°:  $\pi^1$  I-XXII<sup>4</sup>  $\chi^2$ ; 61 $\ell$ .; [2], I-VI, [1]-170, 163-166 p. Pages 163 to 166 repeated. PAGE SIZE: 260 x 192 mm. uncut



DIE MINERAL-SPECIES, 1868

CONTENTS: [2 pgs], Title page, verso "Druck | von Grass, Barth & Comp. (W. Friedrich) in Breslau. | ..."; [I]-VI, "Einleitung."; [1]-162, Text.; 163-170, "Namen Verzeichniss."; 163-166, Advertisements showing other publications from Hirt's.

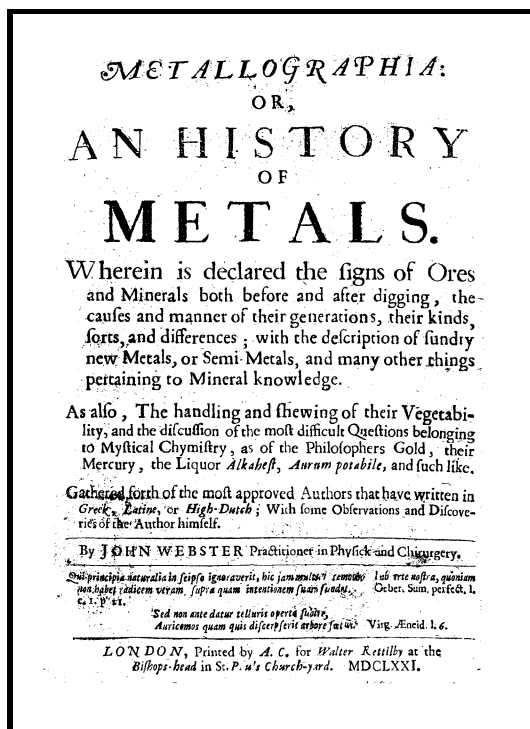
SCARCE. The first mineralogical work to use density values as the principle means of mineral identification. Species are listed under specific gravity intervals from 0.4-0.7 to 12-25, with hardness, localities, formulas and references. As this is the only edition of the work, one can judge that its innovation was overlooked by most mineralogists.

REFERENCES: NUC: 652, 425 [NW 0138248].

**WEBSTER, John.** (BORN: Thornton-on-the Hill, Yorkshire, England, 3 February 1610; DIED: Clitheroe, Lancashire, England, 18 June 1682) *English puritan writer.*

He sometimes wrote under the Latinized name, "Johannes Hyphastes." Webster probably attended Cambridge. In 1634, he became curate of Kildwick in Craven, and in 1643, master of Clitheroe grammar school. He was a chaplain and surgeon in the parliamentary army. By 1653, various accounts say he became a popular preacher and theological disputant in London. He is best remembered for his *The Displaying of Supposed Witchcraft* (London, 1677) that attacked the existence of witches and warlocks and their dark practices.

REFERENCES: Allibone, *Dictionary of English Literature*, 1859-71. • BBA: I 1144, 221-222. • Debus, A.G., *Science and Education in the Seventeenth Century: The Webster-Ward Debate*. London, 1970: 1-65. • DNB: 40, 125 [by W. Porter]. • Jobe, T.H., "The Devil in Restoration Science: the Glanvill-Webster Witchcraft Debate," *Isis*, 72 (1981), 342-56. • Watt, *Bibliotheca Britannica*, 1824. • WBI.



METALLOGRAPHIA, 1671

4938. — English, 1671.

Metallographia: | Or, | An History | Of | Metals. | Wherein is declared the signs of Ores | and Minerals both before and after digging, the | causes and manner of their generations, their kinds, | sorts and differences; with the description of sundry | new Metals, or Semi-Metals, and many other things | pertaining to Mineral knowledge. | As also, The handling and shewing of their Vegetability, and the discussion of the most difficult Questions belonging | to Mystical Chymistry, as of the Philosophers Gold, their | Mercury, the Liquor Alkahest, Aurum potabile, and such like. | Gatheres forth of the most approved Authors that have written in | Greek, Latine, or High Dutch; With some Observations and Discov- | eries of the Author himself. | [rule] | By John Webster Practitioner in Physick and Chirurgery. | [rule] | [...5 lines of quotation in latin...] | [rule] | London, Printed by A.C. for Walter Rettilby at the | Bishops-head in St. Pauls Church-yard. MDCLXXI.

4°: A-Z<sup>4</sup> 2A-2Z<sup>4</sup> 3A-3D<sup>4</sup> 3E<sup>3</sup>; 203ℓ.; [16], 1-388, [2] p. PAGE SIZE: 192 x 142 mm.

CONTENTS: [2 pgs], Title page, verso blank.; [4 pgs], Dedication to Prince Rupert, signed Jo[h]n. Webster.; [7 pgs], "The Preface."; [3 pgs], "A Register of the Chapters."; 1-388, Text.; [2 pgs], "Books printed for, and Sold by | Walter Rettilby, at the Bi- | shops-Head in Duck-Lane.



## WECKER

VERY SCARCE. The *Metallographia: or, an History of Metals* is dedicated to Prince Rupert. It praises Bernard Trevisan, Basil Valentine, Paracelsus and Van Helmont, and belongs as much to the history of alchemy as to that of mineralogy. As its full title shows, it is devoted in large part to "the discussion of the most difficult questions belonging to mystical chemistry, as of the Philosophers' gold, their Mercury, the liquor Alkahest, aurum potabile, and such like." The early pages of the volume are devoted to a critical bibliography of those authors that have treated of metals and minerals. It divides them into three groups: the speculative, who have produced more chaff than corn; the mystical or chymists; and experimental observers. Morhof two years later criticized Webster's book as largely taken from German authors with a few observations of his own. Boyle's Sceptical Chymist is not mentioned, while the alchemical views of Rhumelius are set forth at some length in the eighth chapter. Eighteen chapters are then devoted to the seven metals; chapter 27, to antimony, bismuth, zinc and cobalt; chapter 28, to cadmium, chrysocola, caeruleum, aerugo, talc, the magnet, bloodstone, schist, lapis lazuli, etc.; and the final chapter, to transmutation. A contemporary reviewer was impressed by the apparent inconsistency that, while drinking the scrapings of rusty brass is fatal to many animals, driving a brass nail into meat and especially game keeps it from decay.

Webster supports the view that metals and minerals originate from "seeds" growing within the earth, much as plants grow on the surface. He collects together a great deal of information from old and contemporary authors including some Germans and adds his own observations.

**Facsimile reprint, c1978:** *Metallographia: or, An History of Metals*. New York, Arno Press, c1978. ISBN: 0405104626.

REFERENCES: Adams, *Birth and Development*, 1938: 290-1. • Cole, *Chemical Literature*, 1988: no. 1353. • Duveen, *Bibliotheca Alchemica et Chemica*, 1965: p. 611. • Ferguson, *Bibliotheca Chemica*, 1906: 2, 532. • Freilich Sale Catalog: no. 545. • Hoover Collection: no. 867. • *Journal des Savants*: 6 (1678), 303. • LKG: XVI 52. • Partington, *History of Chemistry*, 1961-70: 2, 112. • Thorndike, *History of Magic*, 1923-58: 7. 263-4.

**WEBSTER, Matthew Henry.** (BORN: 1803; DIED: 1846) *American geologist*.

**4939. — English, 1824** [Collection catalog].

A catalogue of the minerals, which have been discovered in the state of New York; arranged under the heads of the respective counties and towns in which they are found. Albany [New York], Printed by Websters and Skinners, 1824.

8°: [3], 4-32 p. One of the earliest collection catalogs published in the United States. RARE.

REFERENCES: NUC.

**WECKER, Johann Jacob.** (BORN: Basel, Switzerland, 1528; DIED: Colmar in Elsass, Switzerland, 1586) *Swiss physician & philosopher*.

Wecker was a professor of logic and Latin at the University of Basel, before becoming a physician. He moved to Colmar, where he distinguished himself in treating the victims of the plague in 1565 and was made first physician of the city. He authored books on alchemy, pharmacy, cooking, & medicine.

REFERENCES: ADB. • *Biographie Universelle*: 44, 419. • DBA: I 1338, 16-17. • Ferguson, *Bibliotheca Chemica*, 1906: 2, 533. • Hirsch, *Biographisches Lexikon*, 1884-8: 6, 215-6. • Jöcher, *Gelehrten-Lexikon*, 1750-51: 4, 1839. • Partington, *History of Chemistry*, 1961-70: 2, 29. • WBI.



DE SECRETIS LIBRI XVII, 1582

**4940. — Latin, 1582** [First edition].

De Secre- | tis Libri XVII. | Ex variis authoribus collecti, me- | thodiceque digesti. | Per | Ioannem Iacobum Vveckerum | Basiliensem, Medicum Colmariensem. | Accebit Index locupletissimus. | Cum Gratia & Priuilegio. | [ornament] | Basileæ. | M. D. LXXXII.

8°: xlviii, 962 (i.e., 960) p., woodcut device of Peter Perna on title, many woodcut illus. in the text.

VERY RARE. The book is partly an encyclopedia of all sciences, mainly physical, chemical, medical, and astrological, and partly a vast collection of various recipes. Wecker's *Secretis* is perhaps the most widely used and frequently reprinted "book of secrets". It is essentially an encyclopedia of recipes and trade secrets, collected from about 150 different authors. It includes secrets of metals, of glass, of jewels, and how to counterfeit them, of meteors, as hail, rain, snow,

thunder, lightning, tempests, and the like, of sciences, natural magic, mathematics, music, and astrology; secrets mechanical; secrets of sports, delights and recreations, etc. A large portion of the text deals with cookery. This first edition appears to be very rare, with Ferguson stating that he had never seen a copy.

REFERENCES: BL: [incomplete copy]. • BM/STC *German*: 907. • Caillet, *Manuel*, 1912: 3, no. 11368. • Duveen, *Bibliotheca Alchemica et Chemica*, 1965: p. 612. • Ferguson, *Bibliotheca Chemica*, 1906: 2, 534. • Graesse, *Trésor de Livres Rares*, 1859-69: 6, pt. 2, 427. • NLM 16th Century Books (Durling): no. 4707. • Partington, *History of Chemistry*, 1961-70: 2, 29. • Thorndike, *History of Magic*, 1923-58: 6, 215-6.

**4941. 2nd edition, 1587:** De secretis libri XVII. Ex variis authoribus collecti, methodiceque digesti, & tertium iam aucti per Ioan. Iacobvm Weckervm ... Accessit index locupletissimus ... Basileae, Ex officina Pernea, 1587.

8°: [8], 902, [33] p. illus. Printer's device; head and tail pieces; initials.

VERY SCARCE. Wecker's encyclopaedia of all sciences was first published in Basle by Perna in 1582 and throws much light on 16th century practises. Johann Jacob Wecker (1528-86) was a physician at Basle and Colmar and wrote a number of popular medical works. The present work, his best known, was reprinted many times and soon translated into French and English. It derives in part from the work attributed to Alessio Piemontese De secreti first published at Venice in 1555 and later translated into Latin by Wecker in 1559.

REFERENCES: Adams, *Cambridge Books*, 1967: W-38. • BL. • Caillet, *Manuel*, 1912: no. 11368n. • NLM 16th Century Books (Durling): no. 4708. • VD16: [no copy listed]. • Weil Catalogs: cat. 8, no. 286. • Wellcome Catalog (Books): 1, no. 6710.

**4942. 3rd edition, 1588:** De secretis libri XVII. Ex variis authoribus collecti, methodiceque digesti, & aucti per Ioan. Iacobvm Vveckervm, Basiliensem, Medicum Colmariensem. Accessit Index locupletissimus. Cum Gratia & Priuilegio. Basileae, Ex officina Pernea, 1588.

8°: )(8 a-z8 A-Z8 Aa-Ii8 KK2; ??ℓ.; [16], 865, [30] p., illus., diags. Wecker's epistle dedicatory to Baron Lazarus Svendius is dated, Colmar, 1st August 1582. VERY SCARCE.

REFERENCES: BL.

**4943. 4th edition, 1592:** De | Secretis | Libri XVII. | Ex variis authoribus collecti, metho- | diceque digesti, et tertium | iam aucti | per Ioan. Iacovvm Vveckervm, | Basil. Med. olim Colmar. | Accessit Index locupletissimus. | Cum Gratia & Priuilegio. | [ornament] | Basileae | Ex Officina | Pernea. | [rule] | c10 10 xcii.

8°: [8], 902, [34] p., woodcuts, diags., illus.

VERY SCARCE. Reprint, for the most part page-for-page, of the same publisher's edition of 1587.

REFERENCES: BL. • Wellcome Catalog (Books): 1, no. 6711.

**4944. 5th edition, 1598:** De | Secretis | Libri XVII. | Ex variis Authoribus collecti, metho- | diceq; digesti, & aucti | per | Ioan. Iacobvm Vveckervm, | Basiliensem, Medicum Colmariensem. | Accessit Index locupletissimus. | [ornament] | Basileæ, | Typis Conradi Waldkirchii, | sumptibus Episcopianorum. | [rule] | c10 10 xciii.

8°: )(8 a-z8 A-V8 X4 (X4 blank); ??ℓ.; [16], 667, [27] p. (p. [694] blank): ill. (woodcut). Waldkirch's device (Heitz 201) on title page.

VERY SCARCE. Based in part on the Secreti of Alessio Piemontese, also ascribed to Girolamo Ruscelli. Includes bibliography and index.

Ruscelli, Girolamo, d. ca. 1565. / Alessio, Piemontese, b. ca. 1471.

Derived in part from the work attributed to Alessio Piemontese (probably pseud. of Girolamo Ruscelli), the

first ed. of which bore title: De' secreti del reverendo donno Alessio Piemontese sei libri. Venezia, S. Bordogna, 1555. First translated into Latin and published, with additions, by Wecker under title: D. Alexei Pedemontani De secretis libri sex ... Ex italico in latinum sermonē nunc primum translati per J. J. Weckerum. Basileæ, 1559. cf. Melzi, Mazzuchelli, Graesse, Brunet, Jöcher, Brit. Mus. Catalogue, Hirsch, etc.

REFERENCES: BL. • Wellcome Catalog (Books): 1, no. 6712.

**4945. Another edition, 1604:** De | Secretis Libri XVII. | Ex varijs Authoribus collecti, metho- | diceq; digesti, & aucti | per | Ioan. Iacobvm Vveckervm, | Basiliensem, Medicum Colmariensem. | Accessit Index locupletissimus. | [ornament] | Basileæ, | Typis Conradi Waldkirchii, | sumptibus Episcopianorum. | [rule] | c10 10 civ.

8°: )(8 a-z8 A-V8; ??ℓ.; [15], 667, [27] p., illus.

VERY SCARCE. A reprint, for the most part page for page, of the same publisher's edition of 1598.

Keckermann, Bartholomäus. Systema compendiosum totius mathematicae.

REFERENCES: BL. • Graesse, *Trésor de Livres Rares*, 1859-69: 4, 427. • Wellcome Catalog (Books): 1, no. 6713.

**4946. Another edition, 1613:** De | Secretis | Libri XVII. | Ex varijs Authoribus collecti, metho- | diceq; digesti, & aucti | per | Ioan. Iacobvm Vveckervm, | Basiliensem, Medicum Colmariensem. | Accessit Index locupletissimus. | [ornament] | Basileæ, | Typis Conrad Waldkirchii, | sumptibus L. König. | [rule] | c10 10c xiii.

8°: [16], 668, [27] p., illus. Text cuts and diagrams. Head- and tail-pieces. Large device on title.

VERY SCARCE. Derived in part from the work attributed to Alessio Piemontese (probably pseud. of Girolamo Ruscelli), the first edition of which bore title: De' secreti del reverendo donno Alessio Piemontese sei libri. Venezia, S. Bordogna, 1555. First translated into Latin and published, with additions, by Wecker under title: D. Alexei Pedemontani De secretis libri sex ... Ex italico in latinum sermone nunc primum translati per J.J. Weckerum. Basileae, 1559. cf. Melzi, Mazzuchelli, Graesse, Brunet, Jöcher, Brit. mus. Catalogue, Hirsch, etc.]

"It is arranged in a most systematic manner, and in this respect is superior to all the others..." Esoterica 5244. "Recueil de secrets et recettes médicales, de dissertations sur Dieu, les anges et les démons, les astres et les éléments, les sciences, la magie, l'astrologie, etc." Krivatsy/NLM 12624 (1604 ed. with same printer and page count, noting it is an exact reprint of the 1598 ed.)

REFERENCES: BL. • Caillet, *Manuel*, 1912: 11368. • Ferguson, *Bibliotheca Chemica*, 1906: 2, 534n. • Ferguson, *Histories of Inventions*, 1981: 1, 35. • Wellcome Catalog (Books): 1, no. 6714.

**4947. Another edition, 1629:** De | Secretis | Libri XVII. | Ex variis Authoribus collecti, metho- | diceque digesti, & aucti | per | Ioan. Iacobum Weckerum, | Basiliensem, Medicum Colma- | riensem. | Accessit Index locupletissimus. | [ornament] | Basileæ, | Sumptibus Ludovici Regis. | [rule] | M. DC. XXIX.

8°: [16], 667, [27] p., illus. VERY SCARCE.

REFERENCES: BL. • Wellcome Catalog (Books): 1, no. 6715.

**4948. Another edition, 1642:** De | Secretis | Libri XVII. | Ex Variis Authoribus Col- | lecti, methodiceq; digesti, & aucti | per | Ioan. Iacobum Weckerum, | Basiliensem, Medicum Colma- | riensem. | Accessit Index locupletissimus. | [ornament] | Basileæ, | Sumptibus Ludovici Regis. | [rule] | M DC XLII.

8°: [15], 667, [27] p.: illus.

VERY SCARCE. A page for page reprint of the same publisher's edition of 1629.

REFERENCES: BL.

## WECKER

**4949. Another edition, 1662:** De | Secretis | Libri XVII. | Ex Variis Authoribus | Collecti, methodiceque digesti, | & aucti | Per | Joan. Jacobum Weckerum, | Basiliensem, Medicum Colma- | riensem. | Accessit Index locupletissimus. | [ornament] | Basileæ, | [rule] | Sumptibus Ludovici Regis. | Excudebat Joh. Rodolphus Genath. | M DC LXII.

8°: [15], 667, [27] p., illus. PAGE SIZE: 190 x 120 mm.

VERY SCARCE. A reprint, for the most part, page for page, of the same publisher's edition of 1629.

REFERENCES: BL.

**4950. Another edition, 1701:** De secretis libri XVII. Ex variis auctoribus collecti, ... atque tertia hac editione non wolum ab innumeris menis, obscuritateque purgati, sed & Theodore Zvingeri... Additionibus e pharmacia & chymia utilissimis aucti. Basel, J.L. König, 1701.

8°: [calderon]<sup>2</sup> A-3C<sup>8</sup> 3E<sup>6</sup>; ??ℓ.; [12], 764, [32] p., c75 woodcut illus.

VERY SCARCE. New edition edited by Theodore Zwinger (see Ferguson II, 575-6) with a preface by the publisher dated 1701 of this important work of secrets. Wecker (1528-1586) was a popular physician and author of various medical, pharmaceutical and other works. The present work is "A book of miscellaneous secrets, drawn from a variety of named authorities, which had a great vogue" (Duveen). The later part of the work deals with secrets of chemistry, physics, mechanics, etc. (with illustrations) [6] leaves, 764 pp., [19] leaves (last 3 blank). With about 75 text woodcuts. Some foxing. § Blake 483; Neu 4294; Duveen 613; Ferchl 569; Ferguson, Books of Secrets I, 13-16; Rosenthal 891.

REFERENCES: BL.

### French Editions

**4951. First edition, 1586:** Les secrets et merveilles de nature. Recueillis de divers auteurs & divisez en 17, livres. Lyon, B. Honorati, 1586.

8°: [16], 1086, [91] p., diags. VERY SCARCE.

REFERENCES: BL.

**4952. Another edition, 1606:** Les secrets et merveilles de natvre. Recueillis de diuers auteurs, & diuisez en XVII. liures, par Jean Jacques Uvecker ... Traduits en françois, selon la traduction latine: reueu, & corrigé de nouveau ... Tovrnnon, C. Michel, & T. Sovbron, 1606.

8°: \*8 A-Eeee<sup>8</sup> Ffff<sup>6</sup> (Ffff6 blank); ??ℓ.; 8 p.l., 1246 [i.e. 1146], [49] p. illus., diags.

Notes Signatures:

VERY SCARCE. Translated from the Latin of Wecker whose first edition bore title: D. Alexei Pedemontani De secretis libri sex ... Ex italico in latinum sermone nunc primum translati per J. J. Weckerum. Basileæ, 1559. Wecker's work is in part derived from that attributed to Alessio Piemontese (probably pseud. of Girolamo Ruscelli) first published with title: De' secreti del reverendo donno Alessio Piemontese sei libri. Venezia, S. Bordogna, 1555. cf. Melzi, Mazzuchelli, Graesse, Brunet, Jöcher, Brit. mus. Catalogue, Hirsch, etc. Error in paging: p. 890-989 omitted.

REFERENCES: BL.

**4953. Another edition, 1614:** Les secrets et merveilles de nature. Recueillies de divers auteurs, & divisez en xvii livres. Rouen, chez C. Le Villain, 1614.

8°: [16], 858, [45] p., diags. and other illustr. VERY SCARCE.

REFERENCES: BL. • Wellcome Catalog (Books): 1, no. 6716.

**4954. Another edition, 1620:** Les secrets et merveilles de nature, recueillies de divers auteurs & divisez en XVII. livres Rouen, M. de Preaulx, 1620.

8°: [16], 858, [45] p., diags. Printer's mark on title page. VERY SCARCE.

REFERENCES: BL.

**4955. Another edition, 1627:** Les secrets et merveilles de nature, recueillies de divers auteurs, & divisez en XVII. livres. Reveu, corrige, augmente & mis en meilleur ordre que les precedentes impressions. Rouen, [C.] Le Villain, 1627.

8°: [16], 1012, [41] p., illustr. Printer's mark on title-page. Title-page printed in red and black. VERY SCARCE.

REFERENCES: BL.

**4956. Another edition, 1633:** Les secrets et merveilles de nature recueillies de divers auteurs et divisez en XVII Livres. Rouen, Claude Le Villain, 1633.

8°: 1012 p. VERY SCARCE.

REFERENCES: BL.

**4957. Another edition, 1639:** Les secrets et merveilles de nature, recueillies de divers auteurs, & divisez en XVII livres. Reveu, & corrige, augmente & mis en meilleur ordre que les precedentes impressions. Rouen, L. du Mesnil, 1639.

8°: [16], 1012, [41] p., illustr. Title-page printed in red and black. VERY SCARCE.

REFERENCES: BL. • Wellcome Catalog (Books): 1, no. 6717.

**4958. Another edition, 1651:** Les Secrets et Merveilles de Nature, recueillies de divers Auteurs. Livre non seulement necessaire aux curieux, ains à tous ceux qui font profession des Arts Liberaux, et Subtiles Inventions ... reveu, corrigé, et augmenté ... Rouen, 1651.

12°: with numerous woodcuts. VERY SCARCE.

REFERENCES: BL. • Zeitlinger & Sotheran, *Bibliotheca Chemico*, 1921-52: 2, 269, no. 5297.

**4959. Another edition, 1652:** Les secrets et merveilles de nature, recueillis de diuers auteurs, & divisez en XVII livres. Lyon, Chez Simon Rigaud ..., 1652.

8°: [48], 904 p. ill.

VERY SCARCE. Edited by Pierre Meyssonier. A translation of De secretis libri XVII.

REFERENCES: BL.

**4960. Another edition, 1653:** Les secrets et merveilles de nature, recueillis de divers auteurs & divisez en XVII livres. Reveu, & corrige, augmente, & mis en meilleur ordre que les precedentes impressions. Lyon, S. Rigaud, 1653.

8°: 48], 904 p., illustr. Printer's mark on title-page.

Title-page printed in red and black. VERY SCARCE.

REFERENCES: BL.

**4961. Another edition, 1680:** Les secrets et merveilles de nature, recueillis de divers auteurs, & divisez en XVII livres. A Rouen, Chez Jacques Lucas ..., 1680.

8°: [16], 1012, [41] p. ill.

VERY SCARCE. A translation of De Secretis libri XVII. Edited by Pierre Meyssonier.

REFERENCES: BL.

**4962. Another edition, 1699:** Les secrets et merveilles de nature: recueillis de divers auteurs, & divise en xvii livres. order que les precedentes impressions. Rouen: Jean-Baptiste Resongne, 1699.

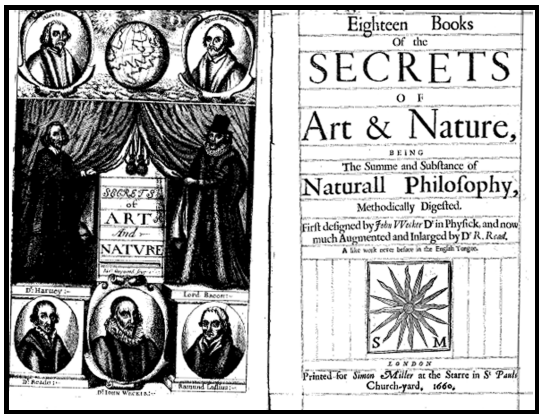
8°: [16], 1012, [41] p. PAGE SIZE: 166 x 112 mm.

VERY SCARCE. "Livre non seulement necessaire aux curieux, mais a ceux qui sont presession des arts liberaux, art militaire & subtiles inventions."

REFERENCES: BL.

### English Edition

**4963. English transl., 1660:** [Contained within a single rule box:] Eighteen Books | [rule] | Of the | [rule] | Secrets | [rule] | Of | [rule] | Art & Nature, | [rule] | Being | [rule] | The Summe and Substance of | [rule] | Natural Philosophy, | [rule] | Methodically Digested. | [rule] | First designed by John Wecker D<sup>r</sup> in Physick and now | [rule] | much Augmented and Inlarged by D<sup>r</sup> R. Read. | [rule] | A like work never before in the English Tongue. | [rule] | [Printer's device] | [rule] | London | [rule] | Printed



EIGHTEEN BOOKS, 1660

for Simon Miller at the Starre in St Pauls | [rule] | Church-yard. 1660.

[ENGRAVED TITLE PAGE READS:]

[Contained within an elaborate frame incorporating seven portraits of leading scientists including Johann Wecker and the translator R. Read:] Secrets | Of | Art | And | Natvre.

4°:  $\pi^1$  a<sup>4</sup> B-Xx<sup>4</sup>  $\chi^2$ ; 193 $\ell$ .; [8], 1-346, [12] p., engraved title containing seven portraits by Gaywood and numerous woodcuts in the text.

CONTENTS: [2 pgs/= $\pi$ 1], Blank, verso title page incorporating seven portraits.; [2 pgs/=a1], Title page, verso blank.; [2 pgs/=a2], "To The | Reader.;" [3 pgs/=a3r-a4r], "A Summary view of the whole Work.;" [1 pg/=a4v], "Authors made use of in this Treatise.;" 1-346 (=B-Uu6v), Text.; [8 pgs/=Xx1r-Xx4v], "The Alphabetical Table.;" [3 pgs/= $\chi$ 1r- $\chi$ 2r], Publisher's list.; [1 pg/= $\chi$ 2v], Blank.

VERY RARE. Considerably augmented translation by R. Read of *De secretis libri XVII*. It contains many original contributions by the translator as well as many woodcuts in the text. The secrets of metals including some minerals and fossils are treated in book ten, while Book XII treats the secrets of jewels including methods of both counterfeiting them as well as detecting fakes.

REFERENCES: BL. • Ferguson, *Histories of Inventions*, 1981: Suppl. 3, ?? • Zeitlinger & Sotheran, *Bibliotheca Chémico*, 1921-52: 2, 269, no. 5296.

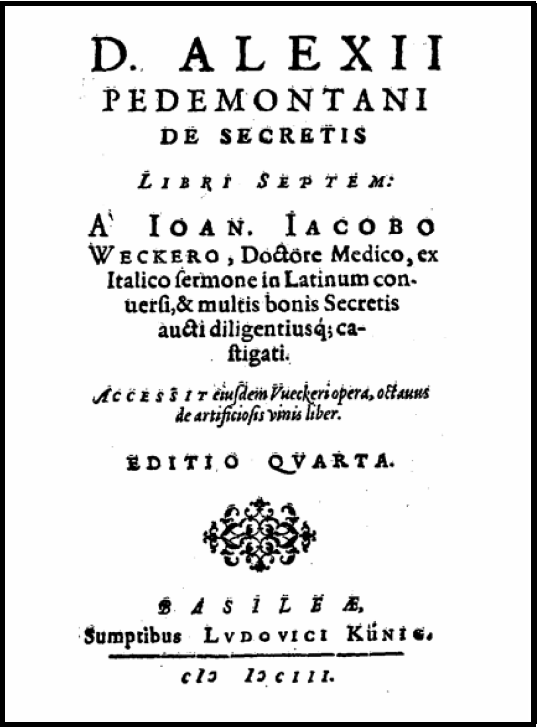
Pedemontani Translation

4964. — Latin, 1603 [4th edition].

D. Alexii | Pedemontani | De Secretis | Libri Septem: | A Ioan. Iacobo | Weckero, Doctore Medico, ex | Italico sermone in Latinum con- | versi, & multis bonis Secretis | aucti diligentiusq; ca- | stigati. | Accessit eiusdem Vveckeri opera, octavus | de artificiosis vinis liber. | Editio Qvarta. | [ornament] | Baseleæ, | Sumptibus Lvdovico Künig. | [rule] | cId Id cIII.

8°: A-Z<sup>8</sup> Aa<sup>8</sup> Bb<sup>4</sup>; ?? $\ell$ .; 361, [25] p.

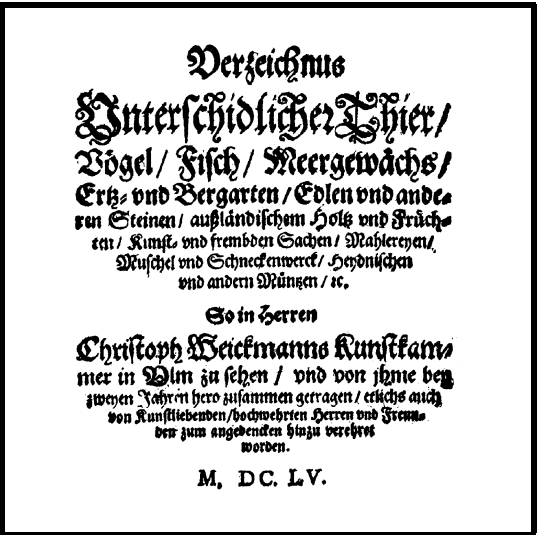
VERY SCARCE. Wecker's book of secrets went through many editions and was translated into several languages. He distinguished himself in treating the victims of the plague in 1565 and was made first physician of the city of Colmar. Besides secrets, this work, first published in 1582, treats of angels and demons, magic, elements, and astrology. This edition



SECRETIS LIBRI SEPTEM, 1603

not in Caillet, Duveen, or Ferguson.

REFERENCES: BL.



VERZEICHNUS, 1655

WEICKMANN, Christoph. (BORN: ?; DIED: Ulm, Germany, 1681) *German councillor*.

REFERENCES: DBA: I 1340, 406. • WBI. • Weyermann, *Nachrichten von Gelehrten, Künstlern und anderen merkwürdigen Personen aus Ulm*. Ulm, 1798.

**4965. — German, 1655** [Collection catalog].

Verzeichnus | Unterschiedlicher Their/ | Vögel/  
Fisch/ Meergewächs/ | Ertz= vnd Bergarten/  
Edlen vnd ande= | ren Steinen/ außländischem  
Holtz vnd Fruch= | ten/ Kunst= vnd frembden  
Sachen/ Mahlereyen/ | Muschel vnd Schnecken-  
werck/ Heydnischen | vnd andern Müntzen/ 3c. |  
So in Herren | Christoph Weickmanns Kunstkam=  
| mer in Ulm zu sehen/ vnd von ihme bey | zweyen  
Jahren hero zusammen getragen/ erlich auch | von  
Kunstliebenden/ hochwehrten Herren vnd Freun=  
| den zum angencken hinzu verehret | worden. |  
M, DC. LV.

8°: [2], [1]-39, [1] p.

CONTENTS: [2 pgs], Title page, verso blank.; [1]-39,  
Text.; [1 pg], Blank.

RARE. The first description of Weickmann's curiosity cabinet located at Ulm. Included in the collection are American Indian artifacts, mummies, crocodiles, snakes, shells, fish horns, bird beaks, minerals, *artificialia*, paintings, foreign woods, coins, and Turkish crafts. Amongst the stones are one from the spot where Moses accepted the commandments, one from Herod's palace, one from the mountain where Christ was tempted by the devil, and so on.

REFERENCES: Balsiger, *Kunst und Wunderkammern*, 1970: p. 731-2. • BL: [727.a.41.(1.)]. • Boehmer, *Bibliotheca Historiae Naturalis*, 1785-9: 1, 376. • Bujok, Elke. *Neue Welten in europäischen Sammlungen Africana und Americana in Kunstkammern bis 1670*. Berlin, Reimer, 2004. 225 p. [ISBN 3-496-01299-4]. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 258. • Murray, *Museums*, 1904: 3, 266. • Wilson, *History of Mineral Collecting*, 1994: p. 227.

**Exoticophylacium Weickmannianum****4966. — German, 1659** [Collection catalog].

Exoticophylacium Weickmannianum: oder Verzeichnus unterschiedl. Thier, Vögel, Fisch, Meergewächs, Ertz- und Bergarten ... so in Christoph Weickmanns Kunst- und Natural Kammer in Ulm zu sehen und von ihme bey etl. wenigen Jahren hero zusammengetragen ... Ulm, 1659.

4°: 87 p. RARE.

REFERENCES: Boehmer, *Bibliotheca Historiae Naturalis*, 1785-9: 1, 376. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 258. • Wilson, *History of Mineral Collecting*, 1994: p. 227.

**4967. Another edition, 1716:** Exoticaphylarium Weickmannionum oder Verzeichniss Unterschiedlicher Their, Vogel, Fisch, Meergewächs, Ertz- und Bergarten. Edlen u.a. Stein, ausländischen Holtz und Früchten fremden und seltsamen Kleiden und Gewohr, Curiosen Sachen, Mahlereyen, Muschel und Schneckenwerk, Heydnischen u.a. Müntzen. So in der Kunst- und Natur kammer dess Weyland Herrn Christoph Weickmanns Seel. in Ulm Samtlichen Herren Erben zum verkauffen zu finden ... Ulm, 1716.

8°: 75 p., illus.

RARE. Collection composed of: "Mumia arabica", Crocodiles, Snakes, Tortoise shells, Horns, claws and bones of animals, Skeletons, eggs and beaks of birds, Fish and fish horns and skins, Seahorses, Things growing in the sea,

Ores and things from mines Pure and unrefined, Fruit, Wood - also curiosa from wood, Horns - even unicornu verum africanum, Earths, Foreign and curious art, Personal ornament (p. 40), Cupsi spoons, knives, Weapons, Turkish objects, Models, Carved work, Work from ivory, Wax pictures, Coins - Numismata (p. 54), and Shells (pp. 62-75).

REFERENCES: Balsiger, *Kunst und Wunderkammern*, 1970: p. 731-2. • Boehmer, *Bibliotheca Historiae Naturalis*, 1785-9: 1, 376. • Klemm, *Geschichte der Sammlungen*, 1837: p. 219-21. • Wilson, *History of Mineral Collecting*, 1994: p. 227.

**4968. Another edition, 1741:** Exoticophylacium Weickmannianum, Oder: Verzeichnuß Unterschiedlicher Thier, ... so in der Kunst- und Naturalkammer des Christoph Weickmanns ... zu finden Ulm, 1741.

8°: 77 p., 2 plates. RARE.

REFERENCES: Boehmer, *Bibliotheca Historiae Naturalis*, 1785-9: 1, 393. • Wilson, *History of Mineral Collecting*, 1994: p. 227.

**WEIGEL, Christian Ehrenfried.** (BORN: Staslund, Germany, 24 May 1748; DIED: Greifswald, Germany, 8 August 1831) *German physician & chemist.*

Weigel had his early education at private school in Stralsund. In 1764 he matriculated at the University of Greifswald. From 1775 onwards, Weigel was professor of botany and chemistry at the University of Greifswald. He was the inventor of the counter current cooler (Liebig cooler). Weigel wrote and translated mostly on chemical subjects.

REFERENCES: ADB: 41, 464. • Anslemio, O., "Nachrichten von früherer Lehrern der Chemie und er Universität Greifswald," *Mitteilungen des Naturwissenschaftlichen Vereins für Neu-Vorpommern und Rugen in Greifswald*, 38 (1906), 117-30. • DBA: I 1341, 359-377; 1341, 383-389. • DBE: 10, 385-6. • Drugulin, *Sechstausend Portraits*, 1863: no. 5821. • DSB: 14, 224-5 [by K. Hufbauer]. • *Neuer Nekrolog der Deutschen*: 9 (1831), 699-705 [obituary]. • Partington, *History of Chemistry*, 1961-70: 3, 594-5. • Pogendorff: 2, col. 1283. • Valentin, J., "Die Entwicklung der pharmazeutischen Chemie an der Ernst Moritz Arndt-Universität in Greifswald," in: *Festschrift zur 500-Jahrfeier der Universität Greifswald*, 2 (Greifswald, 1956), 472-5. • WBL. • *World Who's Who in Science*: 1772.

**4969. — Latin, 1771-3.**

Observationes | Chemicæ | Et | Mineralogicæ | [double rule] | Qvas | Inclyti Ordinis Medici | Consensv | In Academia Georgia Avgvsta | Pro Gradv Doctoris | Legitime Impetrando | Pvblice Defendet | Avctor | Christianvs Ehrenfried Weigel, | Svndensis Pomeranvs. | [rule] | Die XXVII. Martii MDCCCLXXI. | [ornate rule] | Goettingæ, aere Dieterichiano.

[TITLE OF PART TWO READS:]

Observationes | Chemicæ | Et | Mineralogicæ. | Pars Secunda. | Auctore | Christian. Ehrenfr. Weigel | Medicinæ Doctore. | [ornament] | [rule] | Cum Tabulis Æneis. | Gryphiæ, | Apud Ant. Ferd. Röse. 1773.

2 parts. [Part 1: 1771] 4°: [6], 78, [4] p., one plate. [Part 2: 1773] 4°: 108 p., 2 plates.

VERY RARE. Part one was Weigel's dissertation presented to receive his M.D. Part two had Johann Theodore Pyl as respondent.

REFERENCES: BL: [457.c.32.]. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 285. • *Göttingische gelehrte Anzeigen*: 1771, 385 [Part 1] & 1773, 440 [Part 2]. • NUC: 653, 544 [NW 0156037].

**4970. German transl., 1779:** Chemisch=Mineralogische | Beobachtungen | [ornate rule] | von D. Christian Ehrenfried Weigel | [...5 lines of titles and memberships...] | aus dem Lateinischen übersetzt | und mit vielen Zusätzen | vermehrte | von | D. Johann Theodor Pyl | [...2 lines of titles and memberships...] | [rule] | Erster und zweyter Theil. | [rule] | Mit Kupfern. | [ornate rule] | Breslau | bey Wilhelm Gottlieb Korn, 1779.

2 parts. [Part 1] 8°: ★<sup>3</sup> A-F<sup>8</sup>; 50ℓ.; [6], [1]-92 p., frontispiece. [Part 2] 8°: A-L<sup>8</sup> M<sup>5</sup>; 93ℓ.; [2], [1]-182, [2] p., 2 folding plates (apparatus and furnaces).

CONTENTS: [Part 1] [Frontispiece.]; [2 pgs], Title page, verso blank.; [4 pgs], "Vorrede | des Uebersetzers."—April 1779.; [1], Sectional title page, "Chemische | und | mineralogische | Beobachtungen | [ornate rule] | Erster Theil."; [2], Blank.; [3]-92, Text.; [2 pgs], "Inhalt | des ersten Theils."

[Part 2] [1], Sectional title page, "Chemische | und | mineralogische | Beobachtungen | [ornate rule] | Zweyter Theil."; [2], Blank.; [3]-176, Text.; 177-182, "Erklärung | der Kupferplatten."; [2 pgs], "Inhalt | des Zweyter Theils."; [At end], 2 plates.

RARE. Translation by Johann Theodor Pyl [see note below] of *Observationes Chemicae et Mineralogicae* (Göttingen, 1771-3).

**Johann Theodor Pyl.** (BORN: Barth, Vorpommern (German), ??, 16 November 1749; DIED: Berlin, Germany, 27 December 1794) *German physician.* German physician. Pyl studied under Wiegell at the University of Grifswald, receiving his medical degree in 1775. He moved to Berlin where he had a successful medical practice, being named city physician and advising the board of the cities medical college.

REFERENCES: BL: [970.i.5.]. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 285. • *Gothäische gelehrte Zeitungen*: 1780, p. 402. • Hoover Collection: no. 887. • LKG: VI 52a. • NUC: 653, 544 [NW 0156030]. • Roller & Goodman, *Catalogue*, 1976: 2, 564. (Pyl) ADB. • Baur, *Allgemeines historisches Handwörterbuch*, 1803. • DBA: I 988, 42-58. • Hirsch, *Biographisches Lexikon*, 1884-8: 4, 643 [by W. Pagel]. • Hirsching, *Historisch-literarisches Handbuch*, 1794-1815. • Jöcher, *Gelehrten-Lexikon, Supplement.* • Meusel, *Verstorbenen Deutschen Schriftsteller*, 1802-16. • WBI.

Beschreibung eines mineralogischen Taschen-Laboratoriums und insbesondere des Nutzens des Blaserohrs in der Mineralogie. Aus dem Schwedischen Übersetzt von Christian Ehrenfried Weigel. (Greifswald, 1774 and other editions).

See: Engeström, Gustav Von.

## WEIS, Ludwig.

REFERENCES: No references found.

## 4971. — German, 1891 [First edition].

Lehrbuch der Mineralogie und Chemie für höhere Lehranstalten und zum Selbststudium von L. Weis. Bremen, Heinsius, 1891.

2 parts in one volume. 8°: viii, 240 p.; xi, 298 p.

VERY SCARCE. A textbook of mineralogy and chemistry, that apparently only went through this one edition.

REFERENCES: NUC.

**WEISBACH, Julius Albin.** (BORN: Freiberg, Germany, 6 December 1833; DIED: Naunhof near Leipzig, 26 February 1901) *German mineralogist.*



WEISBACH

Weisbach received his Ph.D. from the University of Heidelberg in 1857. He began as an assistant in mineralogy at Freiberg Bergakademie in 1860. Then in 1863 as docent, finally in 1866 he was appointed professor of mineralogy.

REFERENCES: ADB: 41, 522. • Poggendorff: 3, 1427 & 4, 1615. • Sarjeant, *Geologists*, 1980: 3, 2396. • *World Who's Who in Science*: 1774.

## 4972. — German, 1858 [Dissertation].

Über Die | Monstrositäten | Tesseral Krystallisirender | Mineralien. | [rule] | Inaugural-Dissertation | gedruckt mit Genehmigung der philosophischen Facultät zu Heidelberg. | Von | Albin Weisbach, | Docent der Mineralogie an der K.S. Bergakademie zu Freiberg. | Mit vier lithographirten Tafeln. | [tapered rule] | Freiberg. | Buchhandlung J.G. Engelhardt. | (Bernhard Thierbach). | 1858.

8°: 16 p., 4 folded plates of crystals.

VERY SCARCE. In this inaugural dissertation, Weisbach studies irregularities that occur in the tetragonal crystal system. He uses actual minerals to describe the phenomena.

REFERENCES: *Katalog Bergakademie Freiberg*, 1879: p. 705 [VI. 913.]. • NUC.

## Tabellen

## 4973. — German, 1866 [First edition].

Tabellen zur Bestimmung der Mineralien nach äussern Kennzeichen. Leipzig, Verlag von Arthur Felix, 1866.

8°: viii, 113 p.

RARE. This is the first edition of a work that was popular for many years. The text presents a series of tables that are used to determine the name of an unknown mineral by placing a sample through a series of simple tests based upon the external characteristics. Used with in the German education system, it was

## WEISBACH

deemed important enough to be translated into English, which spawned its own sequence of books.

REFERENCES: BMC: 5, p. 2286. • Gascoigne, *Catalogue of Scientific Periodicals*, 1985: no. 8866. • *Katalog Bergakademie Freiberg*, 1879: p. 705 [VI. 989.]. • NUC. • *USGS Library Catalog*.

**4974. 2nd edition, 1878:** Tabellen zur Bestimmung der Mineralien nach äusseren Kennzeichen. 2 Auflage. Leipzig, A. Felix, 1878.

8°: vi, 108 p. VERY SCARCE.

REFERENCES: *Katalog Bergakademie Freiberg*, 1879: Suppl. 1, p. 150 [VI. 1143.]. • NUC.

**4975. 3rd edition, 1886:** Tabellen zur Bestimmung der mineralien Mittels ausserer Kennzeichen. Hrsg. von Dr. Albin Weisbach ... 3. Auflage. Leipzig, A. Felix, 1886.

8°: iv, [2], 106 p. VERY SCARCE.

REFERENCES: *Katalog Bergakademie Freiberg*, 1879: Suppl. 1, p. 150 [VI. 1209.]. • NUC. • *USGS Library Catalog*.

**4976. 4th edition, 1892:** Tabellen | zur | Bestimmung Der Mineralien | mittels | Äusserer Kennzeichen. | [rule] | Herausgegeben | von | Dr. Albin Weisbach, | Professor Der Mineralogie An Der K.S. Bergakademie Zu Freiberg. | Vierte Auflage. | [ornate rule] | Leipzig. | Verlag Von Arthur Felix. | 1892.

8°: viii, 106 p. VERY SCARCE.

REFERENCES: Dana's 7th (Bibliography): 83. • *Katalog Bergakademie Freiberg*, 1879: Suppl. 1, p. 150 [VI. 1245.]. • NUC.

**4977. 5th edition, 1900:** Tabellen zur Bestimmung der mineralien Mittels ausserer Kennzeichen. 5. Auflage. Leipzig, A. Felix, 1900.

8°: iv, 106 p. VERY SCARCE.

REFERENCES: NUC. • *USGS Library Catalog*.

**4978. 6th edition, 1903:** Tabellen | zur | Bestimmung Der Mineralien | mittels | Äusserer Kennzeichen | von | Albin Weisbach. | [rule] | Sechste Auflage | Durchgesehen Und Ergänzt | von | Dr. Friedrich Kolbeck, | Professor Der Mineralogie Und Lötrohrprobierkunde | An Der K.S. Bergakademie Zu Freiberg. | [ornate rule] | Leipzig. | Verlag Von Arthur Felix. | 1903.

8°:  $\pi^4$  1-78 84: 64ℓ.; [i]-viii, [1]-120, tables, index. PAGE SIZE: 238 x 158 mm.

CONTENTS: [i-ii], Title page, verso "Alle Rechte vorbehalten."; [iii]-iv, "Vorwort."; iv, "Vorwort zur sechsten Auflage."; [v], "Übersicht."; [vi]-viii, "Vorerinnerungen."; [1], "Einige kristallographische Symbole." and "Abkurzen."; [2]-27, "I. Metallische glänzende Mineralien."; [28]-59, "II. Halbmetallisch glänzende und gemeinglänzende Mineralien von farbigen Striche."; [60]-115, "III. Gemeinglänzende von farblosem Striche."; [116]-120, "Register."

VERY SCARCE. Edited by Friedrich Kolbeck after Weisbach's death.

**Friedrich Ludwig Wilhelm Kolbeck.** (BORN: Dresden, Germany, 12 January 1860; DIED: Freiberg, Germany, 6 February 1943) *German mineralogist & petrologist*. In 1884, Kolbeck went to Freiberg as assistant, becoming professor of assaying and blowpipe analysis in 1896. In 1901, he succeeded ALBIN WEISBACH as professor of mineralogy, from which he retired in 1928. As part of that duty he helped to manage the mineral collections of the Academy and during his curatorship they did continue to expand.

REFERENCES: NUC. (Kolbeck) *Mineralogical Magazine*: 28 (1947), 203-4 [by L.J. Spencer]. • *Neues Jahrbuch für Mineralogie, Geologie und Paläontologie: Series A*, no. 4 (1943), p. 59-63, portrait [by S. von Gliszczynski]. • Sarjeant, *Geologists*, 1980: 2, 1475-6. • Schiffner, *Alter Freiburger Bergstudenten*, 1935-40: 2, 284-6, portrait. • *Tschermaks mineralogische und petrographische Mitteilungen*: 55, (1943), 271-3 [by R. Schreiter].

**4979. 7th edition, 1906:** Tabellen | zur | Bestimmung Der Mineralien | mittels | Äusserer Kennzeichen | von | Albin Weisbach. | [rule] | Siebente Auflage | Bearbeitet | von | Dr. Friedrich Kolbeck, | Professor Der Mineralogie

Und Lötrohrprobierkunde | An Der K.S. Bergakademie Zu Freiberg i.S. | [ornate rule] | Leipzig. | Arthur Felix. | 1906.

8°, SCARCE.

REFERENCES: NUC.

### English editions

**4980. First edition, 1875:** Tables for the determination of minerals by those physical problems ascertainable by the aid of such simple instruments as every student in the field should have with him. Tr. from the German of Weisbach. Enl., and furnished with a set of mineral formulas, a column of specific gravities, and one of the characteristic blowpipe reactions. Philadelphia, J. B. Lippincott & co., 1875.

8°: 117 p.

VERY SCARCE. Translation by Persifor Frazer [1844-1909] of *Tabellen zur Bestimmung der Mineralien*.

REFERENCES: *Katalog Bergakademie Freiberg*, 1879: Suppl. 1, p. 150 [VI. 1146.]. • NUC. • *USGS Library Catalog*.

**4981. 3rd edition, 1891:** Tables for the determination of minerals by physical properties ascertainable with the aid of a few field instruments. Based on the system of Prof. Dr. Albin Weisbach. By Persifor Frazer ... 3rd edition, entirely rewritten. Philadelphia, J.B. Lippincott company, 1891.

8°: x, 115 p.

VERY SCARCE. Translation by Persifor Frazer [1844-1909] of *Tabellen zur Bestimmung der Mineralien*.

REFERENCES: NUC. • *USGS Library Catalog*.

**4982. 6th edition, 1910:** Tables for the determination of minerals by physical properties ascertainable with the aid of a few field instruments based on the system of the late Professor Doctor Albin Weisbach by Persifor Frazer and Amos Peaslee. 6th. edition rev. to date. Philadelphia, J.B. Lippincott company, 1910.

8°: xiii, 125 p.

SCARCE. Translation by Persifor Frazer [1844-1909] of *Tabellen zur Bestimmung der Mineralien*.

REFERENCES: NUC. • *USGS Library Catalog*.

### Synopsis Mineralogica

**4983. — German, 1875** [First edition].

Synopsis Mineralogica. Systematische Uebersicht des Mineralreiches. Von Dr. Albin Weisbach ... Freiberg, J.G. Engelhardt'sche Buchhandlung (M. Isensee), 1875.

8°: 78 p.

RARE. This work contains a list of mineral species with information on their chemical composition and in most instances notice of their crystallographic system to which they belong. The system used to organize the species is, however, somewhat different from other chemical classifications, and is unusual.

REFERENCES: *Katalog Bergakademie Freiberg*, 1879: Suppl. 1, p. 150 [VI. 1170.]. • NUC.

**4984. 2nd edition, 1884:** Synopsis Mineralogica. Systematische Uebersicht des Mineralreiches. Von Dr. Albin Weisbach ... Freiberg, J.G. Engelhardt'sche Buchhandlung (M. Isensee), 1884.

8°: 87 p., tables. VERY SCARCE.

REFERENCES: *American Journal of Science*: 3rd series, 29 (1885), p. 75. • *Katalog Bergakademie Freiberg*, 1879: Suppl. 1, p. 150 [VI. 1192.]. • NUC.

**4985. 3rd edition, 1897:** Synopsis Mineralogica. | [ornate rule] | Systematische Uebersicht | des | Mineralreiches. | [rule] | Von | Dr. Albin Weisbach | Professor Der Mineralogie An Der K.S. Bergakademie Zu Freiberg | K.S. Oberbergrath. | [rule] | Dritte Auflage | [ornament]

| Freiberg | J.G. Engelhardt'sche Buchhandlung (M. Isensee). | 1897.

8°: 95 p. VERY SCARCE.

REFERENCES: Dana's 7th (Bibliography): 83. • NUC.  
• *USGS Library Catalog*.

### Charakteristik

**4986. — German, 1880.**

Charakteristik der Classen, Ordnungen und Familien des Mineralreiches. Freiberg, J.G. Engelhardt, 1880.

8°: 60 p. At head of title: Characteres mineralogici. VERY SCARCE.

REFERENCES: Dana's 7th (Bibliography): 83. • *Katalog Bergakademie Freiberg*, 1879: Suppl. 1, p. 150 [VI. 1171.]. • NUC.

An elementary guide to determinative mineralogy for the use of the practical mineralogist and prospector, and for instruction in schools and academies, based upon the method of Weisbach's "Tabellen zur bestimmung der mineralien", applied chiefly to American species. [By] C. Gilbert Wheeler ... (Chicago, 1880).

See: Wheeler, Charles Gilbert.

Erinnerungsblätter an Albin Weisbach, Geheimen Bergrath und Professor der Mineralogie an der Kgl. Bergakademie in Freiberg in Sachsen. Von Dr. Victor Goldschmidt ... (Freiberg, 1902).

See: Goldschmidt, Victor.

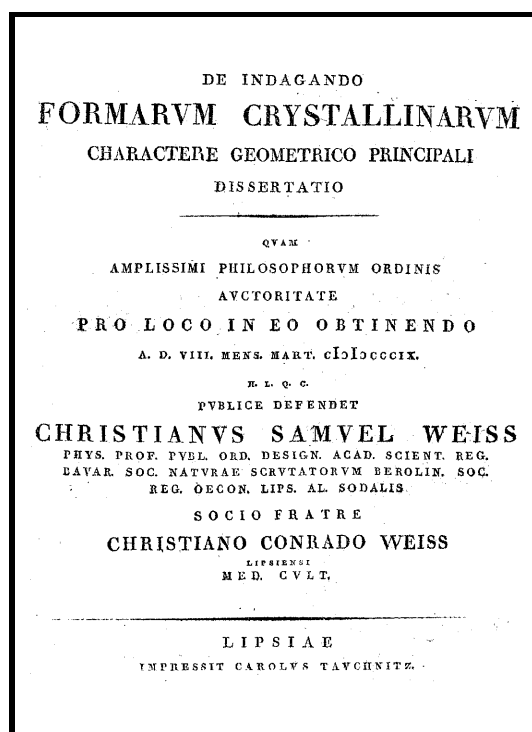


WEISS

**WEISS, Christian Samuel.** (BORN: 26 February 1780; DIED: 1 October 1856) *German crystallographer*.

Weiss was professor of mineralogy at the University of Berlin. He had been a student of Werner's at the Freiberg Bergakademie.

REFERENCES: ADB: 41, 559. • Drugulin, *Sechstausend Portraits*, 1863: no. 6306. • DSB: 14, 239-42. • *ISIS*, 1913-65: 2, 617. • Lambrecht & Quenstedt, *Catalogus*, 1938: 454. • Poggendorff: 2, cols. 1287-9. • Sarjeant, *Geologists*, 1980: 3, 2397. • Sarjeant, *Geologists*, Suppl. 1, 1986: 2, 881.



INDAGANDO FORMARVM CRYSTALLINARVM, 1809

**4987. — Latin, 1809.**

De Indagando | Formarvm Crystallinarvm | Characterere Geometrico Principali | Dissertatio | [tapered rule] | Qvam | Amplissimi Philosophorvm Ordinis | Avctoritate | Pro Loco In Eo Obtinendo | A.D. Viii. Mens. Mart. c1809. | E.L.Q.C. | Pvblice Defendet | Christianvs Samvel Weiss | [...3 lines of titles and memberships...] | Socio Fratre | Christiano Conrado Weiss | Lipsiensi | Med. Cvl. | [tapered rule] | Lipsiae | Impressit Carolvs Tavchnitz.

4°:  $\pi^1$  A-F<sup>4</sup> G<sup>2</sup>; 27 $\ell$ .; [2], [1]-52 p.

CONTENTS: [2] pgs], Title page, verso blank.; [1]-5, "Introductio."; [6]-52, Text.

VERY RARE. Read as a dissertation upon Weiss' appointment to the Physics chair at Leipzig, this work helped lay the foundation of modern crystallographic studies. It outlines the differences between Haüy's prevailing crystallographic theories and the author's own ideas about the meaning of crystal symmetry. Haüy considered the relationship between crystal faces to be the fundamental indicator of geometric form. Weiss improved upon this idea, by proposing instead a method for determining geometric characteristics by using the relationship between sines and cosines of the angle made between a crystal face and the crystallographic axes. By describing the faces of the crystals in relation to the three main axes that Weiss called *a*, *b* and *c*, he created an easy method of relative crystal face

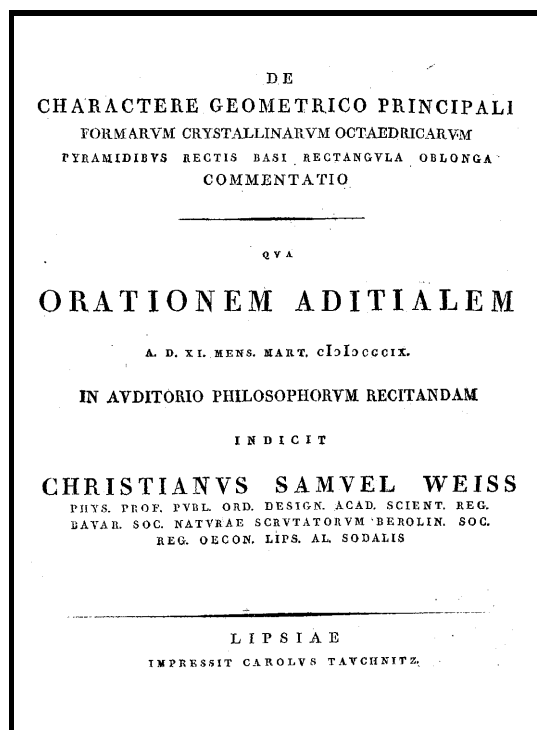


## WELL

designation and orientation that is still adopted today. His theory pointed a clear direction for the future of crystallography, and its treatment of the geometry of crystalline forms.

**French transl., 1811:** "Dissertatio de Indagando formarum crystallinarum caractere geometrico principali, ou Mémoire sur la détermination du caractère géométrique principal des formes cristallines," in: *Journal des Mines*, 19 (1811), pp. 349-391 & 401-444. French translation by André Jean Marie Brochant de Villiers of Weiss' pioneer thesis.

**REFERENCES:** BL: [726.c.27.(1.)]. • Burke, *Origins of the Science of Crystals*, 1966: pp. 151-54 & 155-63. • Leonard's *Taschenbuch*: 5, p. 330. • Lima-de-Faria, *Time-Maps of Crystallography*, 1990: pp. 24 & 28. • LKG: IX 31.



DE CHARACTERE GEOMETRICO, 1809

### 4988. — Latin, 1809.

De | Characteribus Geometricis | Principalibus | Formarum Crystallinarum Octaedricarum | Pyramidibus Rectis Basi Rectangula Oblonga | Commentatio | [tapered rule] | Qva | Orationem Aditalem | A.D. XI Mens. Mart. cIdccccix. | In Avditorio Philosophorum Recitandum | Indicit | Christianus Samuel Weiss | [...3 lines of titles and memberships...] | [tapered rule] | Lipsiae | Impressit Carolus Tavchnitz.

4°:  $\pi^1$  1-44; 17 $\ell$ .; [2], [1]-32 p.

**CONTENTS:** [2 pgs], Title page, verso blank.; [1]-32, Text.

**VERY RARE.** In this thesis, which continues ideas expressed in the *De Indagando Formarum*

*Crystallinarum* of the same year, Weiss emphasized the importance of direction in crystals, attributing their formation and rationality of crystal faces to a generating force that is directional in nature. Crystallographic axes had a physical significance and could therefore be used as the foundation of a system of crystal classification. Weiss proposed to classify crystals into four main systems, with subdivisions, by considering crystallographic axes mutually perpendicular to one another. He begins by dividing crystals into two principal categories. The first division consists of crystals with three axes, each perpendicular to the other two. Three possibilities were noted to occur in this division: 1) the lengths of all axes were equal, 2) the lengths of two axes were equal, while the third was either shorter or longer, and 3) the lengths of all three axes were different. By this means Weiss distinguished the present isometric, tetragonal, and orthorhombic crystal systems. The second major division Weiss noted consists of three equally spaced axes at right angles to a fourth axis. Currently, this is recognized as the hexagonal or trigonal crystal system.

**Related work, 1815:** Weiss continued to develop his theory, and in December, 1815, he read a memoir to the Academy of Berlin, titled: *Uebersichtliche Darstellung des verschiedenen natürlichen Abteilungen der Kristallisations-Systeme* (see: *Abhand. könig. Akad. Wissen. Berlin* (1814-15), pp. 289-344). In this paper, Weiss continues to improve on his system of crystal classification, but it was Friedrich Mohs in his *Grundriß der Mineralogie* (1822) that correctly analyzed oblique axes and proposed six crystallographic systems.

**REFERENCES:** BL: [726.c.27.(2.)]. • Burke, *Origins of the Science of Crystals*, 1966: pp. 155-6. • Leonard's *Taschenbuch*: 5, p. 330. • LKG: IX 32a. • Senechal, *History of Geometrical Crystallography*, 1990: pp. 46-7.

**WELL, Johann Jacob von.** (BORN: Česká Lípa, Czech Republic, 1 March 1725; DIED: Vienna, Austria, 4 April 1787) *Czech/Austrian apothecary, physician & naturalist.*

Apprenticed as an apothecary, Well studied medicine in Vienna, where he was awarded a medical degree. In 1774, he was named the first professor ordinary of natural history at the University of Wien. He built a collection of natural history objects in conjunction with his interest in pharmaceutical subjects.

**REFERENCES:** DBA: I 1349, 122-128. • DBA: I 1349, 122-128; II 1386, 22-23. • *Deutsche Apotheker Biographie*: 2, 734 [by K. Ganzinger]. • Drugulin, *Sechstausend Portraits*, 1863: no. 5829. • Ferchl: p. 573. • Ganzinger, K., "Die österreichischen Provinzial-Pharmakopöe (1774-1794) und ihre Bearbeiter," *Zur Geschichte der Pharmazie*, 14 (1962), 17-24. • Hirsch, *Biographisches Lexikon*, 1884-8: 6, 232. • Meusel, *Verstorbenen Deutschen Schriftsteller*, 1802-16: 14, 497-8. • Poggendorff: 2, col. 1292. • WBI. • Wurzbach, *Biographisches Lexikon Österreich*, 1856-91: 54, 225.

### 4989. — German, 1786.

Johann Jakob von Well, | [...3 lines of titles and memberships...] | Methodische Eintheilung | mineralischer Körper. | Zum | Gebrauche seiner Vorlesungen. | [ornament] | [rule] | Mit 4 Kupfertafeln. | [double rule] | Wien, | bey Rudolph Grässer. 1786.



METHODISCHE EINTHEILUNG, 1786

8°: A-Z<sup>8</sup> Aa<sup>4</sup>, [plates], E<sup>2</sup> N<sup>5</sup> Q<sup>2</sup> R<sup>8</sup> ; 188ℓ.; [1]-375, [1] p., 4 plates. Title vignette, head and tail pieces. Errata: p. [376]. VERY SCARCE.

REFERENCES: BL: [990.g.18]. • LKG: XII 110. • NLM 18th Century Books (Blake): p. 486.

#### WELSH, Jane Kilby.

REFERENCES: No references found.

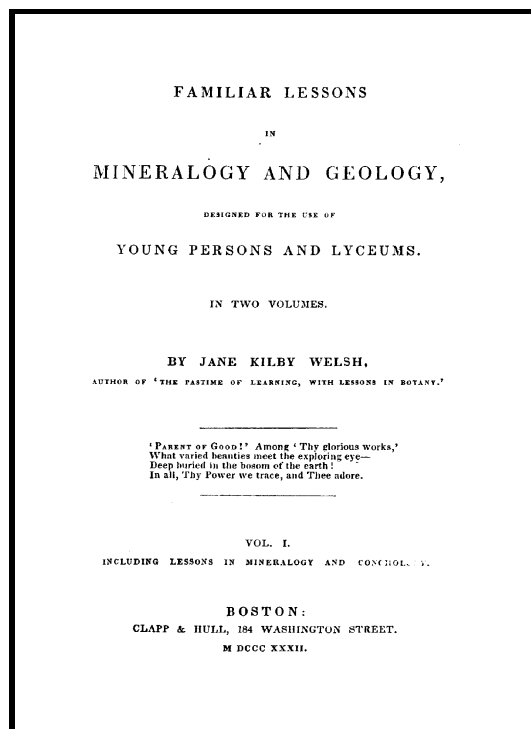
#### 4990. — English, 1833.

Familiar Lessons | in | Mineralogy And Geology, | designed for the use of | Young Persons And Lyceums. | In Two Volumes. | By Jane Kilby Welsh, | Author of 'The Pastime Of Learning, With Lessons In Botany.' | [rule] | [...4 lines of quotation...] | [rule] | Vol. I. [-II.] | Including Lessons In Mineralogy And Conchology. | Boston: | Clapp & Hull, 184 Washington Street. | M DCCC XXXII.

2 vols. [VOL 1] 8°: [1]-404, [2] p., frontispiece (View of the columnar trap at Pleaskin, Ireland). [VOL 2] 8°: [3]-401, [1] p., folding hand-colored plate (showing geological cross sections and fossils). VERY SCARCE.

CONTENTS: [Vol 1] [Frontispiece, View of the columnar trap at Pleaskin, Ireland.]; [1-2], Title page, verso "Entered according to Act of Congress, in the year 1832, | ..."; [3]-4, "Preface."—dated 20 October 1832.; [5]-8, "Contents Of Volume I.;" [9]-376, Text.; [377]-396, "Vocabulary.;" [397]-404, "Index To The First Volume.;" [1 pg], "Index To The Engravings.;" [1 pg], "Errata."

[Vol 2] [3-4], Title page, verso "Entered according to Act of Congress, in the year 1832, | ..."; [5]-8,



FAMILIAR LESSONS, 1832

"Contents Of Volume II.;" [Folding hand-colored plate showing geological cross sections and fossils.]; [9]-390, Text.; [391]-395, "Vocabulary.;" [396]-401, "Index To The Second Volume.;" [1 pg], "Errata."



WERNER

**WERNER, Abraham Gottlob.** (BORN: Wehrau, Silesia, 25 August 1749; DIED: Freiberg, Germany, 30 May 1817) *German mineralogist & geologist.*

## WERNER

Werner was born into a family with a mining tradition; therefore, it was expected he should enter the profession. In 1774, as a student at the Freiberg Bergakademie, he wrote his first book, *Von den äußerlichen Kennzeichen der Fossilien*, and based upon its merit, in 1775, Werner was appointed professor of mineralogy at that institution. He remained there the rest of his professional life. He was by accounts an electrifying teacher, who devoted himself to developing the sciences of mineralogy and geology. His students, many of whom became famous instructors in their own right, spread his theories throughout Europe and North America. However, Werner's idea that basalt was aqueous in origin sparked the great controversy between his theory and that of Scottish geologist James Hutton [1726–1797]. Werner accumulated an extensive personal mineral collection of over 10,000 specimens, which he sold for 40,000 talers to the Freiberg Bergakademie. Today, it is together with Werner's library among the earliest of the great collections that still remains intact.

REFERENCES: ADB: 42, 33-39. • Barr, *Index to Biographical Fragments*, 1973: 277. • Becher, F.L., *Die Mineralogen, Georg Agricola zu Chemnitz, im sechzehnten, und A.G. Werner zu Freiberg, im neunzehnten Jahrhunderte, Winke zu einer biographischen Zusammenstellung aus Sachsens Culturgeschichte*. Freiberg, Craz und Gerlach, 1819. 67 p. • DBA: I 1354, 2-15; 1354, 358; II 1391, 196-214. • Drugulin, *Sechstausend Portraits*, 1863: nos. 5857-63. • DSB: 14, 256-64 [by A. Ospovat]. • Eyles, V.A., "A.G. Werner and his position in the history of the mineralogical and geological sciences," *History of Science*, 3 (1964), 102-15. • Fischer, *Mineralogie in Sachsen*, 1939: 171 ff. • Frisch, S.G., *Lebensbeschreibung Abraham Gottlob Werners. Nebst 2 Abhandlungen über Werner's Verdienst um Oryktognosie und Geognosie von Christian S. Weiss*. Leipzig, 1825. • Guntau, M. & W. Mühlfriedel, "Die Bedeutung von Abraham Gottlob Werner für die Mineralogie und die Geologie," *Geologie*, 17 (1968), no. 9, 1096-1115, illus. • Guntau, M., "Abraham Gottlob Werner," *Biographien hervorragender Naturwissenschaftler, Techniker und Mediziner*, 75 (1984), 1-112, 12 illus. (portraits). • ISIS, 1913-65: 2, 619. • La Rocque, *History of Geology*, 1964: 1, 123-6 [by R.E. Metter]. • Lambrecht & Quenstedt, *Catalogus*, 1938: 455-6. • Leonhard, K.C.v., "Biographical account of M. Werner, late Professor of Mineralogy, Freiberg," *Saturday Magazine*, 4 (1820), 248-51. • Leonhard, K.C.v., *Zu Werner's Andenken, gesprochen in der Versammlung der königl. Akademie der Wissenschaften München, 25 Oktober 1817*. Frankfurt-am-Main, 1817. 32 p. • Poggendorff: 2, cols. 1300-1. • Sarjeant, *Geologists*, 1980: 3, 2402-6, Suppl. 1 (1985), 2, 883-4 & Suppl. 2 (1996), 2, 1190-1 [other refs]. • Schiffner, *Alter Freiburger Bergstudenten*, 1935-40: 1, 6-12, portrait. • WBI. • Wilson, *History of Mineral Collecting*, 1994: 99-100 & 198, portrait. • *World Who's Who in Science*: 1781.

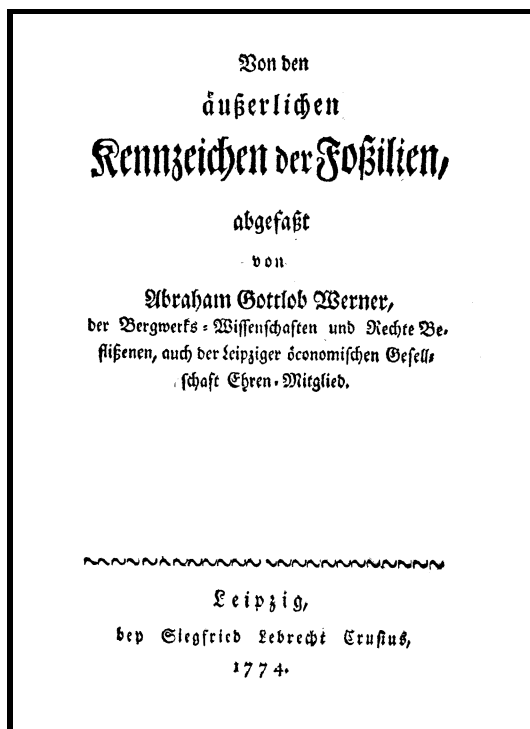
### 4991. — German, 1774 [First edition].

Von den | äußerlichen | Kennzeichen der Fossilien,  
| abgefaßt | von | Abraham Gottlob Werner, |  
[...3 lines of titles and memberships...] | [ornate rule]  
| [ornate rule] | Leipzig, | bey Siegfried Lebrecht  
Crusius, | 1774.

8°: [A]-T<sup>8</sup>; 152ℓ.; [1]-302, [2] p., 8 folding tables.  
PAGE SIZE: 180 x 118 mm.

CONTENTS: [1-2], Title page, verso "In verbis non  
simus faciles, vt conveniamus | in re."; [3-4], Dedication  
to the "Hochansehnlichen und Preißwürdigen Leipziger  
Oeconomischen Gesellschaft," dated 1 December 1773.; [5]-  
12, "Vorbericht."; 13-302, Text.; [2 pgs], "Inhalt."

RARE. One of the most influential writings in  
the development of the mineralogical sciences. It is  
the first successful attempt at describing systematically



VON DEN ÄUSSERLICHEN KENNZEICHEN, 1774

determinative mineralogy. Werner who wrote this book, his first, as a student, at the youthful age of 24 had been around minerals and mining his entire life. He had practical experience in what was needed by the miners to identify minerals, and the reasons for identification. Werner had originally intended to publish an annotated translation of the dissertation written by JOHANN CARL GEHLER titled: *De Characterivs Fossilivm Externis* (Lipsiæ, 1757). After showing the completed translation to his scientific circle, he was advised to that it was better to write a book that was wholly his own. The result was *Von den äusserlichen Kennzeichen der Fossilien*, which took the young Werner only a few months to complete. Based upon this book's merits, Werner was appointed to the staff of the Freiberg Bergakademie, where he stayed the remainder of his professional life.

The book is written not as a mineralogical classification system as was then typical, but rather as a compendium of external characteristics of a large number of minerals. Werner intended it to be used as a practical guide for mineral identification, and proposed that this study be given the name "oryctognosy."—a term previously applied in a wider sense, such as Bertrand's *Dictionnaire Oryctologique Universalle* (Paris, 1763). For his book Werner precisely defined an unprecedented number of external characteristics that could be used to accurately identify specimens through hand examination. Included in the distinguishing features identified for use are color, luster, form, streak,

hardness, and specific weight. Werner claimed that determining all of these qualities for a given mineral specimen was enough to identify its species. In fact, these same characters are readily found in modern handbooks of determinative mineralogy because in most cases they are enough to distinguish the common species. The landmark character of Werner's work rests on the fact that no one before had so precisely defined the properties used to test minerals, and the effect on mineralogical science can be described as revolutionary, with many of his former students writing their own texts to spread Werner's theories in a multitude of other languages.

**Facsimile reprint, 1965:** Abraham Gottlob Werner | Von den | Äusserlichen Kennzeichen | Der Fossilien | Neudruck Der Ausgabe Leipzig 1774 | Mit Vorwort In Englischer Sprache Von | Albert V. Carozzi | Professor at the University of Illinois, Urbana, USA. | A. Asher & Co. | [rule] | Amsterdam 1965. 8°: [i]-xvi, [1]-302, [2] p., 8 folding tables.

[i-ii], Title page, verso "Gesamtherstellung; fotofop, | ..."; [iii]-xvi, "Preface | by | Albert V. Carozzi | ..."; [1], Facsimile of the title page of the Leipzig, 1774 edition.; [2], "In verbis non simus faciles, vt conveniamus | in re."; [3-4], Dedication, dated 1 December 1773.; [5]-12, "Vorbericht."; 13-302, Text.; [2 pgs], "Inhalt."

Photographic reprint of *Von den äusserlichen Kennzeichen der Fossilien* (Leipzig, 1774). An additional commentary in English by Albert V. Carozzi [see note under the 1962 English translation] has been added that describes this book's position in the history of mineralogy.

**Modern English translation, 1962:** On the External | Characters of Minerals | By A.G. Werner • Translated By Albert V. Carozzi | [ornament] | University of Illinois Press • Urbana • 1962. 8°: [i]-xxxii, [1], 1-118 p., illus., tables, diagms., one plate.

[i-ii], Half title page, "On The External Character Of Minerals," verso blank.; [iii-iv], Title page, verso ©1962 by the Board of Trustees of the University of | Illinois. ...; v-vi, "Preface."—signed Albert V. Carozzi, Fall 1961.; [vii-viii], "Contents."; ix-xv, "Introduction."; [xvi], Blank.; [xvii], "On the | External | Characters of | Minerals."; [xviii], Portrait of Werner.; [xvix], Reproduction of the title page of the 1774 Leipzig edition.; [xx], Blank.; xxii, "Foreword."; xxiii-xxix, "Introduction | [ornament] | Of Mineralogy In General."; [xxx-xxxii], Facsimile of pages from Werner's copy of the 1774 Leipzig edition.; [1 pg], Blank.; 1-115, Text.; 116-118, "Glossary Of Ancient Names Of Minerals."

Modern translation by Albert V. Carozzi [see note below] of Werner's own annotated copy of *Von den äusserlichen Kennzeichen der Fossilien* (Leipzig, 1774). This edition is rich with commentary and notes, particularly in reference to other editions of Werner's book. It is not a direct translation of Werner's published work, but rather a translation of what the second edition might have been.

**Albert Victor Carozzi.** (BORN: Geneva, Switzerland, 26 April 1925; DIED: ) *Swiss/American geologist & science historian.* Carozzi was educated at the University of Geneva (M.S., geology and mineralogy, 1947; Dr. Sc., geology and mineralogy, 1948). Afterward, he was for a time a lecturer at the University of Geneva. Then in 1957, he accepted a position as associate professor of geology at the University of Illinois. He became full professor in 1959, and professor emeritus in 1989, after over 30 years of service at the University. His concentration on the exploration and evaluation of mineral deposits and petroleum resulted in his working as a consulting geologist to major American, European and South American companies. Through his numerous writings and translations (some completed with his wife, Marguerite Carozzi), he is recognized as a

distinguished historian of geology.

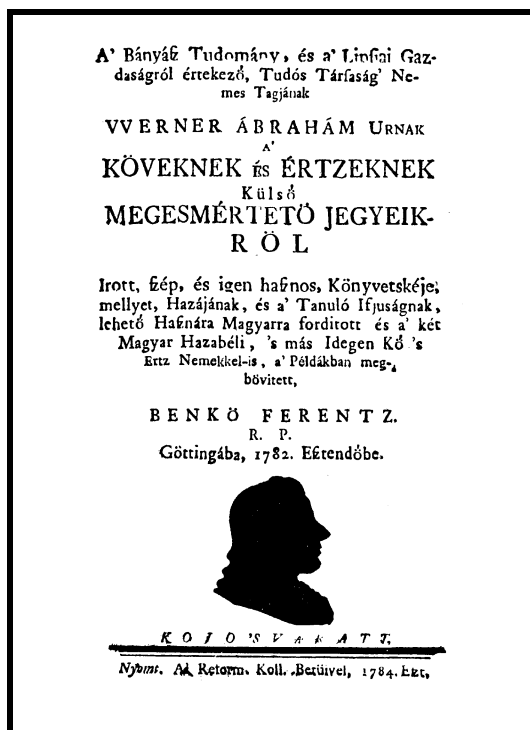
REFERENCES: Adams, *Birth and Development*, 1938: 201-5. • BL. • Dana's 7th (Bibliography): 83. • Dibner, *Heralds of Science*, 1955: 91. • DSB: 14, 256-64 [by A. Ospovat]. • Fischer, *Sachsisches Oberbergamt Freiberg*, 1943. • *Freilich Sale Catalog*: nos. 549-50. • LKG: IX 12. • Norman Catalog: 2, 2205. • Norman Sale Catalog: 3:850. • NUC: 656, 333-4 [NW 0196348]. • Ward & Carozzi, *Geology Emerging*, 1984: no. 2299. • Wilson, *History of Mineral Collecting*, 1994: 99-100. (Carozzi) Personal communication.

**4992. 2nd edition, 1785:** Von den | äusserlichen | Kennzeichen | der | Fossilien, | abgefaßt | von | Abraham Gottlob Werner | [...3 lines of titles and memberships...] | [double rule] | [double rule] | Wien, | gedruckt bey Johann Thomas Edlen von Trattnern, | k.k. Hofbuchdruckern und Buchhändlern. | [rule] | 1785.

8°: A-O<sup>8</sup> P<sup>7</sup>; 119<sup>l</sup>.; [1]-237, [1] p., 7 folding tables. The tables are interspersed in the text at pages 101, 162, 163, 178, 201, 207 & 223. The text of the original edition has been reset with few changes in this "second" edition. PAGE SIZE: 180 x 118 mm. RARE.

CONTENTS: [1-2], Title page, verso "In verbis non simus faciles, ut conveniamus | in re."; [3]-10, "Vorbericht."; [11]-237, Text.; [1 pg], "Inhalt."

REFERENCES: BL. • LKG: IX 12. • NUC: 656, 333-4 [NW 0196349]. • Ward & Carozzi, *Geology Emerging*, 1984: no. 2300.



A' BÁNYÁFZ TUDOMÁNY, 1784

#### Hungarian edition

**4993. Hungarian transl., 1784:** A' Bányász Tudomány, és a' Lipszai Gaz- | daságról értekezés, Tudós Tárfaság' Ne- | mes Tagjának | VVERNER Ábrahám Urnak | A' | Köveknek és Értzeknek | Külső | Megesmértető Jegyeik- | Röl | Irott, szép, és igen hafznos, Könyvetskéje, | mellyet, Hazájának, és a' Tanuló Ifjuságnak, | lehető Hafznára

## WERNER

Magyarra fordított és a' két | Magyar Hazabéli, 's más Idegen Kö 's | Ertz Nemekkel-is, a' Példákban meg- | bővített, | Benkő Ferentz. | R. P. | Göttingába, 1782. Esztendőbe. | [Ornament: profile shading of Werner.] | Kojo 'svaratt, | [double rule] | Nyomt. A' Reform. Koll. Betüivel, 1784. Etzt.

8°: 213 p., title shading of Werner's profile.

VERY RARE. Translation by FERENCZ BENKŐ from *Von den äusserlichen Kennzeichen der Fossilien* (1st ed., Leipzig, 1774).

REFERENCES: BL. • NUC: [no copy listed]. • Ward & Carozzi, *Geology Emerging*, 1984: no. 2301.

### French editions

**4994. French transl., 1790:** *Traité | Des Caracteres | Extérieurs | Des Fossiles, | Traduit de l'allemand de M.A.G. Werner, | [...5 lines of titles and memberships...]* | Par le Traducteur des Mémories de Chymie | de Scheele | [ornament] | A Dijon, | De l'Imprimerie de L.N. Frantin, Imprimeur du Roi, | Se vend chez Mailly, Libraire, place St. Fiacre. | Et se trouve à Paris | Chez Onfroy, Libraire, rue St. Victor, n°. 11. | [ornate rule] | M. DCC. XC. | Avec Approbation Et Privilège Du Roi.

12°: A<sup>12</sup> B<sup>4</sup> 2A-O<sup>12</sup> P<sup>7</sup>; 191ℓ.; [i]-xxx, [2], [1]-350 p., 8 folding tables. The tables are interspersed in the text at pages 81, 135, 145, 230, 259, 285, 295 & 313. PAGE SIZE: 170 x 94 mm.

CONTENTS: [i-ii], Title page, verso blank.; [iii], Dedication, dated December 1773.; [iv], Blank.; v-xxx, "Avertissement | Du Traducteur."; [2], "Privilege Du Roi."; [1]-20, "Introduction."; 21-334, Text.; 335-337, "Table | Des Chapitres, &c."; [338], "Errata."; 338-350, "Table Alphabétique | Des Minéraux indiqués pour servir | d'exemples des divers caractres ex- | térieurs."

SCARCE. Translation by Madame Guyton-Morveau with additional notes by her husband, Louis Bernard Guyton-Morveau [see notes below], of *Von den äusserlichen Kennzeichen der Fossilien* (Leipzig, 1774). Recognizing Werner's work to be a reformation of mineralogy, Guyton-Morveau encouraged his wife (referred to as Mme. P\*\*\* in the approbation, p. xxx, in reference to her maiden name of Picardet) to translate the textbook into French. However, it was not until 1790 that it appeared. Even so, the translation was readily accepted by the scientific community.

Mme Guyton-Morveau writes in the preface that in 1786 the Spanish scientist, DON FAUSTO D'ELHUYAR, stopped by her home in Dijon and told her that Werner was occupied in translating Cronstedt's mineralogical textbook and would not write a second edition of his famous book. In addition, she records that d'Elhuyar sent her copies of his class notes obtained while attending Werner's lectures as a student in Freiberg. These arrived in the form of a copy of the textbook in which were interbound a great number of manuscript pages containing numerous modifications and corrections. As a result of these additions, the 1790 translation is the original text significantly modified in many respects. Mme Guyton-Morveau herself writes that she almost considers this a new edition when compared to the original. It is the best contemporary translation of Werner's textbook.

**Madame Guyton-Morveau (formerly Picardet).** (BORN: ; DIED: Dijon, Côte d'Or, France (?), after 1796) *French translator.* Sister of C.-N. Picardet [?-c1794], canon of Saint-Jean-Baptiste in Dijon. Wife of L.B. Guyton-Morveau, she prepared translations of several textbooks related to chemistry.

**Louis Bernard Guyton-Morveau.** (BORN: Dijon, Côte d'Or, France, 4 January 1737; DIED: Paris, France, 2 January 1816) *French chemist & aristocrat.* Guyton-Morveau was a lawyer by profession and served from 1755 to 1782 as a member of the Dijon Parliament. Science had always been his hobby, and after his retirement, he turned his attention to chemistry. He worked with Lavoisier to

reform the nomenclature of chemistry. When the French Revolution occurred, Guyton-Morveau returned to politics on the side of the revolutionists and survived the period, although he did nothing to help Lavoisier. He served as master of the mint under Napoleon, and was made a baron in 1811.

REFERENCES: BL. • NUC: **656**, 333-4 [NW 0196340]. • Smeaton, W.A., "L.B. Guyton de Morveau: a Bibliographical Study," *Ambix*, **6** (1957), 18-34: [see pages 30-1]. • Ward & Carozzi, *Geology Emerging*, 1984: no. 2302. (Guyton-Morveau (formerly Picardet)) Bouchard, G., *Guyton-Morveau, chimiste et conventionnel, 1737-1816*, Paris, 1938, 365 p. • DBF: I 497, 224-225. • WBI. (Guyton-Morveau) ABF: I 497, 226-262; II 328, 177-178. • Beauchamp, *Biographie Moderne*, 1816. • Berthollet, C.L., *Eloge Historique de Guyton-Morveau*, Paris, 1816. • Bouchard, G., *Guyton-Morveau, chimiste et conventionnel, 1737-1816*, Paris, 1938, 365 p. • DBF: **17**, cols. 439-42 [by C. Meyer]. • DSB: **5**, 600-4 [by W.A. Smeaton]. • Feller, *Biographie Universelle*, 1851. • Granville, A.-B., "An account of the life and writings of G. de Morveau," *Journal of Science and the Arts*, ?? (1817), ??. • Grison, E., M. Goupil, and P. Bret, eds., *A scientific correspondence during the chemical revolution : Louis-Bernard Guyton de Morveau and Richard Kirwan, 1782-1802*. Edited by Emmanuel Grison, Michelle Goupil, and Patrice Bret. Berkeley, Office for History of Science and Technology, University of California at Berkeley, 1994. vi, 257 p., illus. • *Nouvelle Biographie Générale* (Hoefer): **22**, cols. 968-72 [by L. Louvet]. • Poggendorff: **1**, cols. 981-2. • Schaedler, *Biographisch Handwörterbuch*, 1891: 46-7. • Smeaton, W.A., "The contributions of P.-J. Macquer, T.O. Bergman and Guyton de Moreavu to reform chemical nomenclature," *Annals of Science*, **10** (1954), 87-106. • Smeaton, W.A., "Guyton de Morveau and chemical affinity," *Ambix*: **11** (1963), 55-64. • Smeaton, *Portable Chemical Laboratories*, 1966. • Smeaton, W.A., "L.B. Guyton de Morveau. Early platinum apparatus," *Platinum Metals Review*, **10** (1966), 24-28. • Smeaton, W.A., "Louis Bernard Guyton de Morveau, F.R.S. (1737-1816) and his relations with British scientists," *Notes & Records, Royal Society of London*, **1967**, 113-130. • WBI.

**4995. French transl., 1795:** *Traité | Des Caracteres | Extérieurs | Des Fossiles. | [ornate rule] | Traduit de l'Allemand | de Mr. A.G. Werner, | [...7 lines of titles and memberships...]* | par | le Traducteur des Mémoires de Chymie | de Scheele. | [tapered rule] | [ornate rule] | A Dresde, 1795. | chez les Freres Walther, | Libraires de la Cour.

8°: A-S<sup>8</sup> T<sup>1</sup>; 155ℓ.; [1]-296, [14] p., 7 folding tables. The tables are interspersed in the text at pages 125, 133, 197, 198, 238, 258 & 279. PAGE SIZE: 176 x 102 mm.

CONTENTS: [1-2], Title page, verso blank.; [3]-15, "Avertissement | Du Traducteur."; 16-19, "Préface De L'Auteur."; 20-35, "...Introduction."; 36-296, Text.; [3 pgs], "Table | Des Chapitres & c."; [11 pgs], "Table alphabétique | des | Minéraux indiqués pour servir d'exemples | des divers caracteres extérieurs."

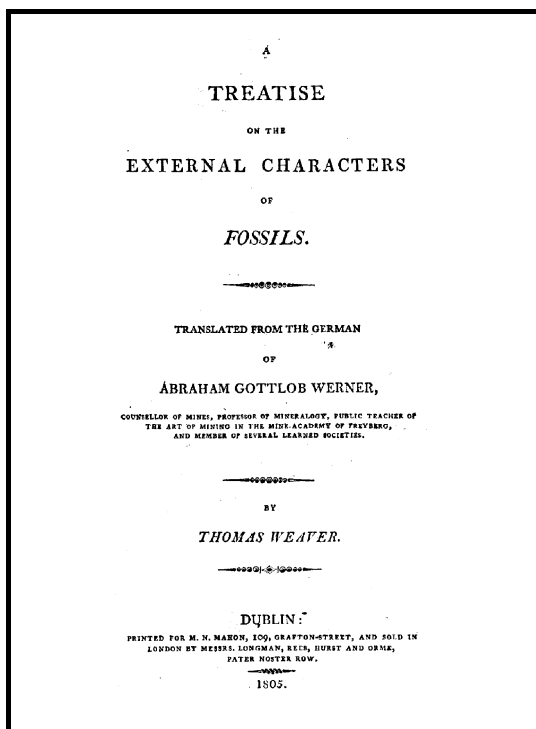
RARE. Text of the 1790 French edition, reset, and published in Dresden. Perhaps a pirated edition?

REFERENCES: BL. • LKG: IX 13a. • NUC: **656**, 333-4 [NW 0196341].

### English editions

**4996. English transl., 1805:** A | Treatise | on the | External Characters | of | Fossils. | [ornate rule] | Translated From The German | of | Abraham Gottlob Werner. | [...3 lines of titles and memberships...] | [ornate rule] | By | Thomas Weaver. | [ornate rule] | Dublin: | Printed For M.N. Mahon, 109, Grafton-Street, And Sold In | London By Messrs. Longman, Rees, Hurst And Orme, | Pater Noster Row. | [ornate rule] | 1805.

8°: [a]-b<sup>8</sup> B-U<sup>8</sup>; 168ℓ.; [i]-xx, [1]-312, [2] p., 2 folding plates showing crystal drawings. PAGE SIZE: 218 x 130



TREATISE ON THE EXTERNAL CHARACTERS, 1805

mm.

CONTENTS: [i-ii], Half title page, "A | Treatise | on the | External Characters | of | Fossils | [double rule] | Printed by Graisberry and Campbell, 10, Back-Lane, Dublin | [double rule]," verso blank; [iii-iv], Title page, verso blank; [v], Dedication to Richard Kirwan, signed "The Translator," 24th September 1804; [vi], Blank; [vii]-x, "Advertisement | of the | Translator.;" [xi]-xvi, "Preface | of the Author.;" [xvii]-xx, "Contents.;" [1]-244, Text; [245], "System | of the | External Characters | of | Fossils.;" [246], Blank; [247]-287, "Tabular Arrangement | of the | Generic External Characters of Fossils.;" [288], Blank; [289], "Index | of the | Fossils Employed in Illustration.;" [290], Blank; [291]-305, Text; [306], Blank; [307]-312, "Explanation | of the | Figures in Plates I & II.;" [1 pg], "Errata.;" [1 pg], Blank; [At end], 2 folding plates.

SCARCE. Translation by Thomas Weaver [see note below] of *Von den äusserlichen Kennzeichen der Fossilien* (Leipzig, 1774). In the introduction, Weaver writes that since Werner is not presently writing a new edition, he feels compelled to translate the original edition with additional material. Sources for the additions are stated to be principally copies of Werner's manuscript corrections and additions circulated among his students, notes taken during his lectures given during 1791-2, and the mineralogies of his disciples WIEDENMANN and EMMERLING, and the *Manual of Natural History* by BLUMENBACH.

**Thomas Weaver.** (BORN: 1773; DIED: Pimlico, England, 2 July 1855) *English geologist*. From 1790 to 1794, Weaver attended the Freiberg Bergakademie, where he studied under WERNER. After graduation, he was appointed a government geologist in Wicklow. Later he worked as a consultant in Mexico and the United States. Weaver was elected to the Royal Society in 1826.

REFERENCES: BL. • Hoover Collection: no. 880. • NUC: 656, 333-4 [NW 0196343]. • Ward & Carozzi, *Geology*

*Emerging*, 1984: no. 2303. (Weaver) Allibone, *Dictionary of English Literature*, 1859-71. • BBA: I 1143, 124-127. • Boase, *Modern English Biography*, 1892-1921. • *Biographie Universelle*: 44, 401. • DNB: 20, 1005 [by G.B. Shaw]. • Poggendorff: 2, cols. 1269-70. • *Quarterly Journal of Geological Society of London*: 12 (1855), xxxviii-ix [by W.J. Hamilton]. • Sarjeant, *Geologists*, 1980: 3, 2389. • Schiffner, *Alter Freiburger Bergstudenten*, 1935-40: 1, 18. • WBI.

4997. English transl., 1849-50: A treatise on the external characters of minerals by Abraham Gottlob Werner ... An improved translation from the German with explanatory notes edited by the Wernerian Club. London: G. Barclay, 1849-50.

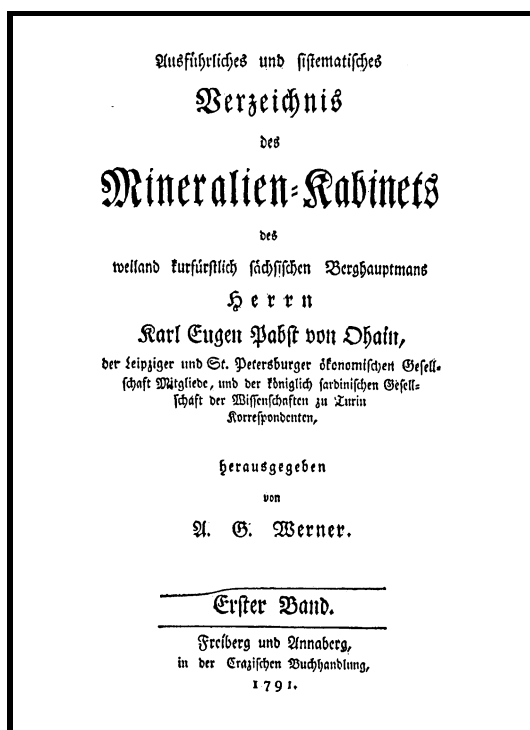
8°: xi, [13]-143 p.

VERY SCARCE. Translation by CHARLES MOXON. It is very close to Weaver's translation of 1805, but with some material that had become obsolete between 1805 and 1850 deleted. Only a few notes have been added by Moxon.

REFERENCES: BL. • NUC: 656, 333-4 [NW 0196344].

Axel von Kronstedts Versuch einer Mineralogie. Auf's neue aus dem Schwedischen übersetzt und nächst verschiedenen Anmerkungen vorzüglich mit äussern Beschreibungen der Fossilien vermehrt von Abraham Gottlob Werner Ersten Bandes erster Theil. (Leipzig, 1780).

See: Cronstedt, Axel Fredrik.



VERZEICHNIS DES MINERALIEN-KABINETS, 1791

4998. — German, 1791-2 [Collection catalog].

Ausführliches und sistematisches | Verzeichnis | des | Mineralien=Kabinetts | des | weiland kurfürstlich sächsischen Berghauptmanns | Herrn | Karl Eugen Papst von Ohain, | [...4 lines of titles and memberships...] | herausgegeben | von A.G. Werner, | [rule] | Erster Band. [-Zweiter Band.] |

## WERNER

[rule] Freiberg und Annaberg, | in der Crazischen Buchhandlung, 1791 [-1792].

2 vols. [Vol 1: 1791] 8°: a-b<sup>8</sup> A-Z<sup>8</sup>; 200ℓ.; [i]-xxxii, [1]-368 p.; [Vol 2: 1792] 8°: a-b<sup>8</sup> c<sup>4</sup> A-R<sup>8</sup> S<sup>7</sup>; 154ℓ.; [i]-xxxx, [1]-268 p. PAGE SIZE: 194 x 118 mm.

CONTENTS: [Vol 1] [i-ii], Title page, verso blank.; [iii]-xxii, "Vorbericht."—signed A.G. Werner, 28 September 1790.; xxiii-xxxii, "Anzeige."; [1], Sectional title page, "Erste Abtheilung | des | Mineralienkabinetts. | [double rule] | Methodische | Mineralien=Sammlung. | [double rule]."; [2], Blank.; [3]-368, Text.

[Vol 2] [i-ii], Title page, verso blank.; [iii]-iv, "Vorbericht."—signed A.G. Werner, 1 October 1792.; v-xxxx, "Anzeige des Inhalts."; [1], Sectional title page, "Zweyte Abtheilung | des | Mineralienkabinetts. | [double rule] | Geographische | Mineralien=Samlung. | [tapered rule]."; [2], Blank.; [3]-286, Text.

VERY RARE. A catalog describing the fine mineral collection of the Saxon mining official Karl Eugen Papst von Ohain [see note below]. The first volume begins with a lengthy introduction in which Werner explains in detail his mineral classification system. This is followed by descriptions of the minerals, arranged in five separate sections according to external characters, the use of the minerals, a natural method of classification, the localities of the specimens and the historical development of the earth's crust.

**Karl Eugen Papst von Ohain.** (BORN: Freiberg, Germany, 8 April 1718; DIED: Freiberg, Germany, 25 July 1784) *German mining expert*. Papst von Ohain was director of the Freiberg Bergakademie from its founding in 1769 until his death. In his lifetime he was considered among the most knowledgeable mineralogists in Saxony, having built a collection of over 7,500 specimens. After his death, it was reorganized by WERNER, and sold to the government of Portugal, which shipped it to the University of Rio de Janeiro to be used in teaching mineralogy and geology. Papst von Ohain was a member of the Leipzig and St. Petersburg Academies.

REFERENCES: BL. • Dana's 7th (Bibliography): 83. • Freiesleben, *Sächsische Mineralien-Verzeichnisse*, 1828: no. 50. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 270. • LKG: XV 41. • NUC: 436, 543 [NP 0003070]. • Partsch, *Katalog der Bibliothek*, 1851: no. 487. • Ward & Carozzi, *Geology Emerging*, 1984: no. 2308. (Papst von Ohain) Fischer, *Sachsches Oberbergamt Freiberg*, 1943 [see page 153]. • Schiffner, C., *Alte Hutten und Hammer in Sachsen*. Bearbeitet von Werner Grabner. Berlin. Akademie-Verlag, [1959]. [1]-313 p., illus., maps, portrait. [Published as: *Freiberger Forschungshefte. D, Kultur und Technik*, no. 14. On the history of foundries in Saxony.]: 3, ?? • Wilson, *History of Mineral Collecting*, 1994: 95-6 & 186.

### 4999. — German, 1792.

Oryktognosie | oder | Handbuch | für | die Liebhaber der Mineralogie | vermitteltst welchem die Mineralien aus ihrer äußer= | lichen Beschaffenheit leicht zu erkennen, von einander | zu unterscheiden, und andern kenntlich zu ma= | chen sind. | [tapered rule] | [rule] | Leipzig, 1792. | bey Siegfried Lebrecht Crusius.

8°: [8], 3-274, [8] p.

RARE. Published with only the initials A.G.W. as the only clue to the author, the British Museum Library attributes this work to Werner.

REFERENCES: BL: [973.b.24.]. • *Freilich Sale Catalog*:

no. 553. • LKG: XII 209. • NUC: 656, 333-4 [NW 0196335]. • Ward & Carozzi, *Geology Emerging*, 1984: no. 2309.

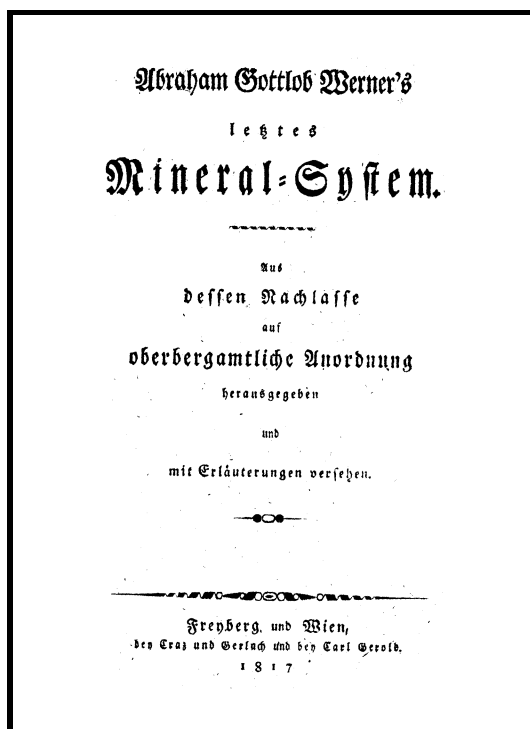
### 5000. — German, 1811.

Kleine Sammlung mineralogischer Berg- und Huttenmannischer Schriften, Erstes Stuck. Leipzig: Friedrich Christian Vogel, 1811.

8°: 202 p.

RARE. No more published. This is the sole published volume of a collection of articles on mineralogy and mining, of which Werner authored three and co-authored another.

REFERENCES: BL. • LKG: VI 106a\*. • NUC: 656, 333-4 [NW 0196318].



WERNER'S LETZTES MINERAL-SYSTEM, 1817

### 5001. — German, 1817.

Abraham Gottlob Werner's | letztes | Mineral=System. | [ornate rule] | Aus | Dessen Nachlasse | auf | oberbergamtliche Anordnung | herausgegeben | und | mit Erläuterungen versehen. | [ornate rule] | [ornate rule] | Freyberg und Wien, | bey Craz und Gerlach und bey Carl Gerold. | 1817.

8°: \*7 A-C<sup>8</sup> D<sup>4</sup> E<sup>1</sup>; 36ℓ.; [i]-xiv, [1]-58 p. PAGE SIZE: 205 x 118 mm.

CONTENTS: [i-ii], Title page, verso blank.; [iii]-xiv, "Vorbericht."—signed Johann Carl Freiesleben, 30 October 1817.; [1]-58, Text.

VERY SCARCE. Published in the same year as Werner's death, this work, edited with commentary

by his student JOHAN CARL FREISLEBEN, is based on the last lectures Werner gave as an instructor at the Bergacademie in Freiberg. The long introduction gives curious details about Werner's life and the disposition of his estate.

REFERENCES: BL. • Dana's 7th (Bibliography): 83. • *Freilich Sale Catalog*: no. 554. • Hoover Collection: no. 877. • Norman Catalog: 2, 2207. • NUC: 656, 333-4 [NW 0196322]. • Ward & Carozzi, *Geology Emerging*, 1984: no. 2314.

# 5002. — French, c1785.

Table Synoptique des Caractères extérieurs des Minéraux, pour servir à déterminer la Série des Observations et les Expressions appropriées à la Méthode descriptive de Werner. [Paris, c1785].

Large broadside. PAGE SIZE: 400 x 500 mm. VERY SCARCE.

REFERENCES: *Weil Catalogs*: 31, no. 170.

NEUESTES MINERAL-SISTEM, 1816

# 5003. — German, 1816.

A.G. Werner's neuesten Mineral-Sistem. | [Text of table] | München 1816 bey Joseph Lindauer.

Broadside. PAGE SIZE: 530 x 730 mm.

EXTREMELY RARE. A broadside providing in tabular form an overview of Werner's latest mineralogical classification scheme to 1816. At the head of the table is an interesting orthographical mistake of "Mineral-Sistem" (it should read "Mineral-System") that may indicate other errors. Only a few copies of this single leaf item have been traced in European libraries.

REFERENCES: Partsch, *Katalog der Bibliothek*, 1851: no. 273.

# 5004. — German, 1791.

Neue Theorie von der Entstehung der Gänge, mit Anwendung auf den Bergbau besonders den freibergischen. Freiberg: Gerlach, 1791.

8°: xxxv, 256 p.

VERY SCARCE. LKG: XIII 176a. A foundation book to modern studies of economic geology, this work describes the basic techniques used in ore deposit studies. One of the major books of Werner, this

publication contains his theory of the origin of ore deposits, in which he hypothesises the origin and emplacement of veins, established criteria for detecting the relative ages of veins and vein materials, and gave a detailed study of vein structure and the rocks in which they occur.

REFERENCES: Adams, *Birth and Development*, 1938: throughout book. • DSB: 14, 256-264. • Fischer, *Sachsisches Oberbergamt Freiberg*, 1943: *Zeitschrift der Deutschen Geologischen*. • *Freilich Sale Catalog*: no. 552. • Geikie, *Founders of Geology*, 1905: throughout book. • *Gesellschaft*: 95, heft 3/4, pp. 143-183. • Hoover Collection: no. 878. • La Rocque, *History of Geology*, 1964: 1, 123-26. • LKG: XIII 176a. • Norman Catalog: 2, 2206. • Ward & Carozzi, *Geology Emerging*, 1984: no. 2305.

# 5005. — French, 1802.

Nouvelle Theorie de la formation des Filons. Application de cette theorie a l'exploitation des mines, particulièrement de celles de Freiberg. Par A.G. Werner... Nouvelle edition, traduite de l'Allemand, revue et augmentee d'un grand nombre de notes, dont plusieurs ont ete fournies par l'auteur meme, par J.F. Daubuisson. Paris: Chez Viller, an XI.

8°: xvi, 209 p. VERY SCARCE.

# 5006. — French, 1802.

Nouvelle Theorie de la formation des Filons. Application de cette theorie a l'exploitation des mines, particulièrement de celles de Freiberg. Ouvrage ... augmentee d'un grand nombre de notes, dont plusieurs ont ete fournies par l'auteur meme. Freiburg: Craz, 1802.

8°: xxxii, 311 p., portrait.

VERY SCARCE. LKG: XII 176a. Translated by J.F. d'Aubuisson de Voisins.

# 5007. — French, 1805.

Nouvelle Theorie de la formation des Filons. Application de cette theorie a l'exploitation des mines, particulièrement de celles de Freiberg. Par A.G. Werner... Nouvelle edition, traduite de l'Allemand, revue et augmentee d'un grand nombre de notes, dont plusieurs ont ete fournies par l'auteur meme, par J.F. Daubuisson. Paris: Chez Viller, 1805.

8°: xvi, 209 p. VERY SCARCE.

# 5008. — English, 1809.

New Theory of the formation of veins; with application to the art of working mines, translated from the German with an appendix by C. Anderson. Edinburgh, 1809.

8°: xxxvi, 259, [1] p., portrait. VERY SCARCE.

# 5009. — German, 1818-1826.

Auswahl aus den Schriften der unter Werner's Mitwirkung gestifteten Gesellschaft für Mineralogie



## WERNERIAN CLUB

zu Dresden. Leipzig : J.F. Gleditsch, 1818-26.

3 vols. ill., maps (some col.), port.

VERY SCARCE. Collected papers of Werner? by the Gesellschaft für Mineralogie.

### 5010. — German, 1787.

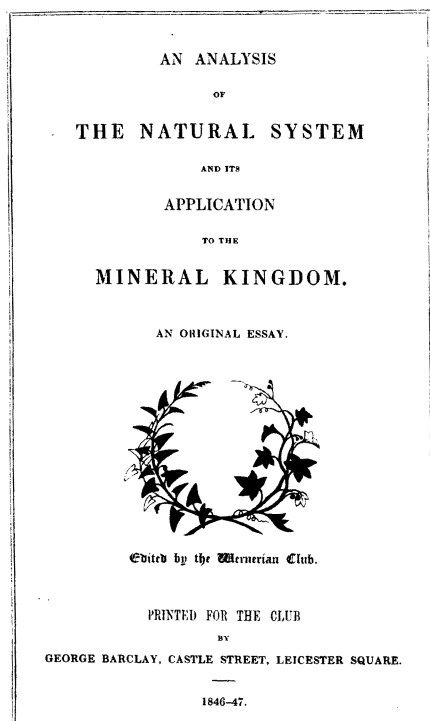
Kurze Klassifikation und Beschreibung der verschiedenen Gebirgsarten, von A.G. Werner ... Dresden: In der Waltherischer Hofbuchhandlung, 1787. 8°: 28 p.

VERY RARE. This short monograph sparked one of geology's greatest controversies. In it, Werner states for the first time his belief that all basalt is of aqueous origin, thus precipitating the great basalt dispute between the Neptunists and the Plutonists. Originally issued in *Abhandlungen der Boehmischen Gesellschaft der Wissenschaften* (1786), this is the first separate issue.

**English transl., 1971:** *Short classification and description of the various rocks. Translated with an introduction and notes by Alexander M. Ospouat. Translation and facsimile of the original text (1786) in juxtaposition.* New York: Hafner Publishing Company, 1971. 8°: x, 194 p., illustrations.

Translation by Alexander M. Ospouat. Contains chronological list of Werner's published writings and a list of references.

REFERENCES: Adams, *Birth and Development*, 1938: throughout book. • DSB: 14, 256-264. • Fischer, *Sachsches Oberbergamt Freiberg*, 1943: *Zeitschrift der Deutschen Geologischen*. • Geikie, *Founders of Geology*, 1905: throughout book. • *Gesellschaft*: 95, heft 3/4, pp. 143-183. • La Rocque, *History of Geology*, 1964: 1, 123-26. • LKG: XIII 175.



ANALYSIS, 1846

## WERNERIAN CLUB.

### 5011. — English, 1846-7.

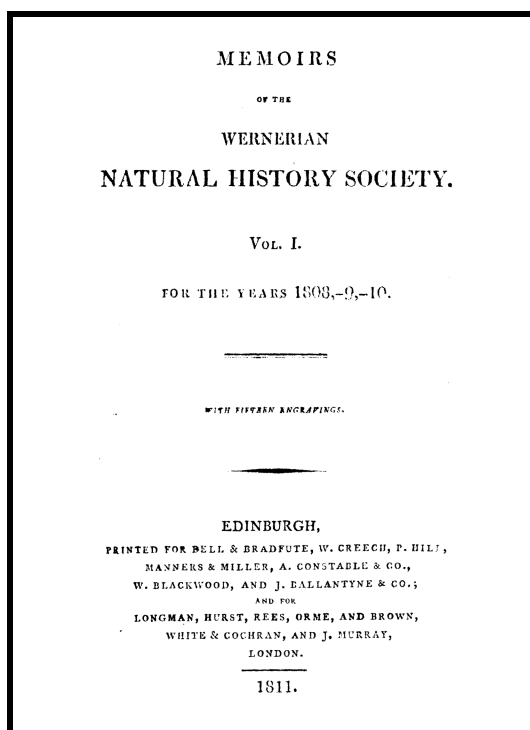
[Within a double ruled border:] An Analysis | of | The Natural System | and its | Application | to the | Mineral Kingdom. | An Original Essay. | [ornament] | Edited by the Wernerian Club. | Printed for the Club | by | George Barclay, Castle Street, Leicester Square. | [rule] | 1846-47.

8°: [4], [1]-36, [1] p., 3 hand-colored plates (2 of mineral specimens, 1 of diagrams). PAGE SIZE: 254 x 158 mm.

CONTENTS: [2 pgs], Title page, verso blank.; [1 pg], "Puruant to a Resolution ..."; [1 pg], Blank.; [1]-35, Text.; [1 pg], Blank.

VERY SCARCE. Published anonymously.

REFERENCES: NUC: 656, 428.



MEMOIRS, 1811

## WERNERIAN NATURAL HISTORY SOCIETY, Edinburgh.

### 5012. — English, 1811-39 [Periodical].

Memoirs | Of The | Wernerian | Natural History Society. | Vol. I. | For The Year 1808,-9,-10. | [double rule] | With Fifteen Engravings. | [tapered rule] | Edinburgh, | Printed For Bell & Bradfute, W. Creech, P. Hill, | Manners & Miller, A. Constable & Co., | W. Blackwood, And J. Ballantyne & Co.; | And For | Longman, Hurst,

Rees, Orme, And Brown, | White & Cochran, And J. Murray, | London. | [rule] | 1811.

8°: 7 vols. and part 1 of volume 8, all published, illustrations, plates (partly colored), maps, facsim., tables, diagrams.

RARE. Periodical. In 1808, a group of supporters for Werner's geological theories, led by Robert Jameson effectively seceded from the Royal Society of Edinburgh, and founded the *Wernerian Natural History Society*, placing Werner himself at the head of the honorary membership list. Jameson was elected president, a position he retained for the existence of the Society, which lasted until 1838. The creation of this Society added considerably to the Huttonian-Wernerian debate in Scotland, as Hutton, Playfair and Hall remained members of the Royal Society of Edinburgh. Hutton never had many supporters even though his theories held a powerful grip on the Royal Society of Edinburgh (Porter, 1980). In contrast, Jameson had far more followers in the Wernerian Natural History Society and was able to establish a program of mapping and descriptive geology that was of real importance to Scottish geology. However, the unity of the Wernerian Society lay in loyalty to the theories of Werner and his principal advocate in Scotland, Jameson. Many members of Society were Jameson's pupils or ex-pupils, and "it flourished and decayed in pulse with his own interests in Wernerian geognosy" (Porter, 1980). Thus, when the Neptunists were defeated, the Wernerian Natural History Society lost its purpose, and ceased to exist.

In 1826, while the great American naturalist John James Audubon searched in Great Britain for a publisher for his ornithological masterpiece, *Birds of America*, he was invited to the *Wernerian Society*. He recorded his impressions of this visit in his journal: "We enter the room of the *Wernerian Society of Edinburgh!* What a name it has in America! The room is a plain oblong square, and two tables, one chimney, many long seats, and a chair for the President were all I saw there with the exception of a stuffed Swordfish on the table for examination that day. Several persons were already present. I unrolled drawing of the Buzzard for them to look at. Professor Jameson came in. I knew the secretary Patrick Neill, Mr. Witham, Professor Russell &c. P. Neill read my letter on the Buzzard first, not very well. Professor Jameson rose, made quite a eulogy about it, all my work, and lastly about *myself*. I had the Society's thanks. ... Professor Jameson then ... offered me as an Honorary Member of the Society. Everyone clapped hand and stamped the floor [as a] mark of approbation. Then the professor desired that the usual law of suffering the election to be tried for months should be infringed upon that I be elected at the next meeting. The same acclamations took place, and the Society [adjourned]" (Audubon, 1987: 396).

**WESTFELD, Christian Friedrich Gotthard Henning.** (BORN: Apfelstädt, Herzogth., Gotha, Germany, 2 June 1746; DIED: Bückeburg, Germany?, 23 March

1823) *German cleric, mineralogist & crystallographer.*

In 1766, Westfeld was rector of the city school in Bückeburg. Then in 1796, he became advisor at Wehnde near Göttingen.

REFERENCES: ADB: 42, 191. • DBA: I 1358, 329-334; II 1395, 234-235. • Hamberger & Meusel, *Gelehrte Teutschland*, 1796-1834. • Meusel, *Verstorbenen Teutschen Schriftsteller*, 1802-16. • *Neuer Nekrolog der Deutschen*. • Poggendorff: 2, col. 1305. • WBI.

### 5013. — German, 1767.

C.F.G. Westfelds | mineralogische Abhandlungen. | [ornate rule] | [...7 lines of quotation, signed Newton...] | [ornate rule] | Erste Stück. | [ornate rule] | Göttingen und Gotha. | Bey J.C. Dieterich. 1767.

8°:  $\pi^4$  A-D<sup>8</sup> E<sup>4</sup>; 40ℓ.; [8], [1]-72 p.

CONTENTS: [2 pgs], Title page, verso blank.; [4 pgs], Dedication, signed C.F.G. Westfeld, 12 April 1767.; [1 pg], "Vorerrinerung."; [1 pg], "Verzeichnis der Abhandlungen."; [1]-72, Text.

VERY RARE. Only portion published of a proposed treatise on mineralogy. In fifteen essays, Westfeld investigates various studies of mineralogy. Topics include Braunstein (pyrolusite), the analysis of silica stones, fibrous limestone, fibrous silica stones, calcite, graphite, pyritous limestone, marl, incrustations of the salt houses, and most importantly to the history of crystallography an essay on the constituents of crystals, which states that all crystals of spar are composed of rhombohedral pieces, thus anticipating Bergmann. The experiments performed by the author are repeated more than once and show a diligence not common during his time.

REFERENCES: *Allgemeine Deutsche Bibliothek*: 5 (1768), no. 2, 230. • *Berlinische Sammlungen*: 3, 635-6. • BL: [972.g.12.]. • *Erlanger gelehrte Beyträge*: 39 (1768). • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 284. • *Göttingische gelehrte Anzeigen*: 1767, 353. • *Jenaische gelehrte Zeitungen*: 1767, no. 39. • LKG: VI 41. • NUC: [no copy listed]. • *Physikalisch-Oekonomische Auszüge*: 9, 607.

### WESTON, Stephen, Reverend. (BORN: 1747; DIED: 1830) *English antiquarian.*

A man of letters, Weston was educated at Blundell's School, Tiverton, and became a fellow of Exeter College, Oxford, 1768-84, M.A., 1770, B.D., 1782. Worked as a tutor on the continent, 1771. Lived in Paris, 1791-92. Became rector at Mamhead, 1777-90 and Little Hempston, Devon, 1784-1823. F.R.S., 1792. F.S.A., 1794. Weston published travel notes, classical texts and annotations, notes on Shakespeare, scriptural discussions and translations from Arabic, Chinese and Persian.

REFERENCES: Allibone, *Dictionary of English Literature*, 1859-71. • BBA: I 1152, 367-376. • DNB: 9, 372. • Watt, *Bibliotheca Britannica*, 1824. • WBI.

### 5014. — English, 1805 [Part 1].

Werneria; | or, | Short Characters | of Earths: | with | Notes according to the Improvements | of | Klaproth, Vauquelin, and Haüy. | [double rule] | By Terræ Filius. | [double rule] | Beena 'l ma, wa 'l teen.— Arabic Proverb. | Inter aquam et lutum, (nondum creatus mundus.) | [double rule] | London: | Printed by and for C. and R. Baldwin, New |

## WHEWELL

Bridge-Street, and for W. Miller, | Albemarle-Street. | [rule] | 1805.

8°:  $\pi^4$  B-G<sup>8</sup> H<sup>1</sup> I<sup>4</sup>; 57ℓ.; [i]-viii, [1]-105, [1] p. PAGE SIZE: 158 x 90 mm.

CONTENTS: [i-ii], Title page, verso blank.; [iii]-viii, "Preface."; [1]-92, Text.; [93]-98, "Additions."; [99]-105, "Index."; [1 pg], "In the Press, and soon will be published, Aphorisms, ..."

RARE. Part One. A truly unique publication, which like the work of Marbodea written centuries before, is set in a heroic verse rhyme. It follows a Wernerian theme, but incorporates the ideas of Klaproth, Vauquelin and Haüy. "The design of the writer, in publishing this small Tract on Earths, is to facilitate the knowledge of the science, and assist those who are desirous of studying it, with a *step* towards the kingdom of minerals. In doing this, the author makes an experiment which, should it succeed, may probably lead him from the Earths and Metals, and from the Metals to the Inflammables."—*Preface*. A second part was published in 1806 [which see below].

### 5015. — English, 1806 [Part 2].

Werneria, | (Part the Second) | or, | Short Characters | of | Earths | and | Minerals: | According to | Klaproth, Kirwan, Vauquelin, and | Hauy. | With | Tables of their Genera, Species, Primitive | Crystals, Specific Gravity, and | Component Parts. | [double rule] | By Terræ Filius Philagricola. | [double rule] | London: | Printed by and for C. and R. Baldwin, New | Bridge-Street, and for W. Miller, | Albemarle-Street. | [rule] | 1806.

8°:  $\pi^1$  a<sup>2</sup> B-E<sup>8</sup> \*E<sup>1</sup> F-I<sup>4</sup> K<sup>2</sup>; 53ℓ.; [i]-[v], [1] errata, [1]-99, [1] blank p. PAGE SIZE: 158 x 90 mm.

CONTENTS: [i-ii], Title page, verso blank.; [iii]-[v], "Preface."; [1 pg], Errata.; [1]-48, Text.; [49]-64, "Supplement to Part I. Or Short Characters of Earths. Published 1805."; 64 (i.e., 65), "Additions."; [66], Blank.; 67-91, "Tables of Minerals. Earths."; [92], Blank.; [93]-99, "Index of Minerals, and their Places."; [1 pg], Blank.

RARE. Part Two. Continues the format of the previous part, and rhymes more mineralogy. "The author of a Tract on Earths, with the title of Werneria in the year 1805, who borrowed his name from a Latin poet, hinted in his Preface an intention of proceeding from the earths to the metals, should the experiment he had tried, succeed, of recording the earths in verse, with a view to make them more easily remembered. The consequence is, that he proceeds to the metals in the same form of text, and notes."—*Preface*. The supplement contains descriptions of earths which were omitted from the previous part.

REFERENCES: Hoover Collection: no. 881.

**WHEELER, Charles Gilbert.** (BORN: 1836; DIED: 1912) *American chemist.*

REFERENCES: ABA: I 1720, 37-39; II 666, 129. • *Herringshaw's National Library of American Biography.* • WBI. • *Who Was Who in America.*

### 5016. — English, 1880 [First edition].

An Elementary Guide | To | Determinative Mineralogy | For The Use Of | The Practical Mineralogist And Prospector, And | For Instruction In Schools And Academies, | Based Upon The Method Of | Weisbach's "Tabellen Zur Bestimmung Der | Mineralien," | Applied Chiefly To American Species. | [rule] | C. Gilbert Wheeler, | Professor in the University of Chicago. | [rule] | Chicago: | S.J. Wheeler, Publisher. | 1880.

8°: [1]-75, [3] p. PAGE SIZE: 192 x 129 mm. uncut.

CONTENTS: [1-2], Title page, verso blank.; [3], "Preface."; [4], Blank.; [5], "Introduction."; [6]-53, "Principle Tables Of Minerals."; [54]-61, "Supplementary Tables."; 62-64, "Blow Pipe Tests."; 65, "Blow Pipe Assay."; [66], Blank.; 67, "The Scale Of Hardness."; [68], Blank.; 69, "Abbreviations."; [70], Blank.; 71, "Synopsis Of Arrangement."; [72], Blank.; [73]-75, "Index."; [1 pg], Blank.; [1 pg], "Other Works by Prof. Wheeler."; [1 pg], Advertisement of the "Mineralogical Chart by C. Gilbert Wheeler."

VERY SCARCE. This is one of about a dozen guides written to help the field prospector and school student in America to identify an unknown mineral sample. Wheeler's *Guide* was somewhat better organized in its approach to the problem, being based upon Weisbach's *Tabellen zur Bestimmung der Mineralien*, which was then popular in German academies. That Wheeler intended his book to be used to locate mineral resources in the American west is clear from its focus on mineral species that were indicators of economic mineral deposits. This book was reissued in 1881 with no noticeable changes.

**Related work, c1880:** An advertisement is included at the end of Wheeler's *Elementary Guide* for another of his works, *Mineralogical Chart*. The advertisement describes it as "consisting of over 200 color illustrations of minerals species, including all the most important and typical groups. Lithographs colored by hand. Each chart consists of 5 sheets of plates, 14 x 24 inches, and 2 columns of text running the length of the chart. Also available with German, Spanish, French, Bohemian and Norwegian text."

REFERENCES: NUC.

**WHEWELL, William.** (BORN: Lancaster, England, 24 May 1794; DIED: Cambridge, England, 6 March 1866) *English physicist, mathematician and historian of science.*

Whewell graduated from Cambridge in 1816, and worked as a tutor there from 1823 to 1838. In 1828, he was also appointed professor of mineralogy. In 1844, he became master of Trinity College, Cambridge, a post he held until 1866. Whewell published and edited many works in the natural and mathematical sciences, philosophy, theology, and the history of science. He was elected a Fellow of the Royal Society in 1820, as well as the Geological Society for which he served as president in 1837-8.

REFERENCES: Allibone, *Dictionary of English Literature*, 1859-71. • *Annual Register.* • Barr, *Index to Biographical Fragments*, 1973: 278. • BBA: I 1155, 226-256. • Boase, *Modern English Biography*, 1892-1921. • Daniels, *American Science in the Age of Jackson*, 1968. • DNB: 20, 1365-74. • Drugulin, *Sechstausend Portraits*, 1863: no. 5867. • DSB: 14, 292-5 [by R.E. Butts]. • *Encyclopaedia Britannica*, 11th edition. • *ISIS*, 1913-65: 2, 622. • Lambrecht & Quenstedt,

*Catalogus*, 1938: 457-8. • Poggendorff: 2, cols. 1309-11 & 3, 437. • Robson, R. and F.W. Cannon, "William Whewell, F.R.S., (1794-1866). I. Academic life by R. Robson. II. Contributions to science and learning, by W.F. Cannon," *Notes & Records of the Royal Society of London*, 19 (1964), no. 2, 168-91, plates 19-22. • Ruse, M., "The scientific methodology of William Whewell," *Centaurus*, 20 (1977), 227-57. • Sarjeant, *Geologists*, 1980: 3, 2411-2, Suppl. 1 (1986), 2, 886 & Suppl. 2 (1995), 2, 1194-5. • WBI. • Wexler, P.J., "The great nomenclator. Whewell's contributions to scientific terminology," *Notes & Queries*, n.s., 8 (1961), no. 1, p. 27-32. [Reviews the words coined by Whewell in the physical sciences.]. • *World Who's Who in Science*: 1787.

### 5017. — English, 1828.

An Essay on Mineralogical Classification and Nomenclature; with Tables of the Orders and Species of Minerals. Cambridge, 1828.

8°: [6], [i]-xxxii, [1]-71, [1] p.

CONTENTS: [2 pgs], Title page, verso blank.; [2 pgs], Introductory notice.; [1 pg], Contents.; [1 pg], Blank.; [i]-xxxii, Essay on Mineralogical Classification and Nomenclature.; [1 pg], Tables of orders and species of minerals.; [1 pg], Blank.; [1]-71, Tables of mineral species.; [1 pg], Blank.

RARE. By the time Whewell published this essay, the mineralogical classifications proposed by Mohs and Breithaupt in which physical or external mineralogical characters determined the classes of the minerals. Berzelius, Gmelin, Beudant, and Leonhard championed arrangements according to their chemical relations. Whewell published here that if these two divergent methods are to be reconciled, it must be done through a natural history method.

REFERENCES: *Annual Register*. • Barr, *Index to Biographical Fragments*, 1973: 278. • Dana's 7th (Bibliography): 83. • DNB. • Drugulin, *Sechstausend Portraits*, 1863: 160, no. 5867. • DSB: 14, 292-5. • *Encyclopaedia Britannica*, 11th edition. • *ISIS*, 1913-65: 2, 622. • Lambrecht & Quenstedt, *Catalogus*, 1938: pp. 457-8. • Poggendorff: 2, cols. 1309-11 & 3, 437. • Sarjeant, *Geologists*, 1980: 3, 2411-2. • Sarjeant, *Geologists*, Suppl. 1, 1986: 2, 886. • Sarjeant, *Geologists*, Suppl. 2, 1995: 2, 1194-5. • *World Who's Who in Science*: 1787.

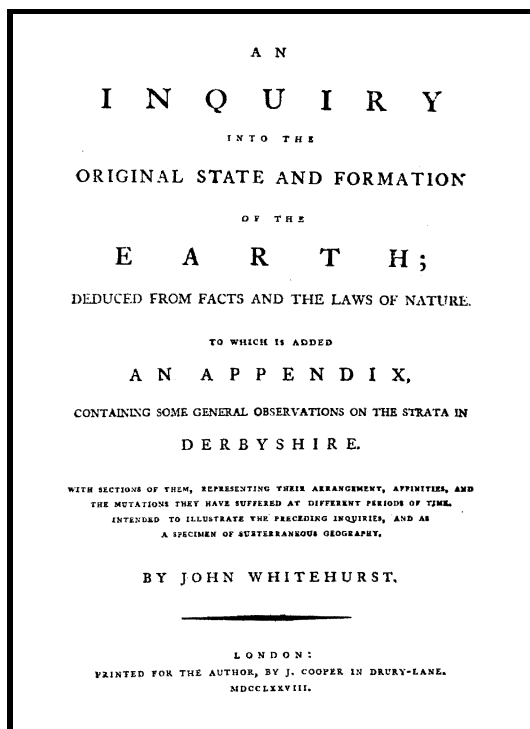
**WHITEHURST, John.** (BORN: Congelton, Cheshire, England, 10 April 1713; DIED: London, England, 18 February 1788) *English mechanical engineer*.

Whitehurst was based in Derby, where he had his shop. In 1775 he was appointed the official "Stamper of the Legal Money-Weights" in London. He was elected F.R.S. in 1779.

REFERENCES: Allibone, *Dictionary of English Literature*, 1859-71. • BBA: I 1160, 305-323; II 1837, 193. • Craven, Maxwell. *John Whitehurst of Derby: clockmaker and scientist*, 1713-88. Mayfield, Ashbourne, Derbyshire, England, Mayfield Books, c1996. 272 p., illus., portraits, genealogical tables. • DSB: 14, 311-2. • Lambrecht & Quenstedt, *Catalogus*, 1938: 459. • Poggendorff: 2, col. 1312. • Sarjeant, *Geologists*, 1980: 3, 2418-9 & Suppl. 1 (1986), 2, 887. • Watt, *Bibliotheca Britannica*, 1824. • WBI.

### 5018. — English, 1778 [First edition].

An Inquiry Into The Original State And Formation Of The Earth; Deduced From Facts And The Laws Of Nature. To Which Is Added An Appendix, Containing Some General



AN INQUIRY, 1778

Observations On The Strata In | Derbyshire. | The Mutations They Have Suffered At Different Periods Of Time. | Intended To Illustrate The Preceding Inquiries, And At | A Specimen Of Subterraneous Geography. | By John Whitehurst. | [tapered rule] | London: | Printed For The Author, By J. Cooper In Drury-Lane. | MDCCLXXVIII.

4°: [16], [i]-ii, [2], [1]-199 p., 6 plates (on 4 leaves, 2 folding). PAGE SIZE: 268 x 218 mm.

CONTENTS: [2 pgs], Half title page, verso blank.; [2 pgs], Title page, verso blank.; [11 pgs], List of subscribers.; [1 pg], "Errata."; [i]-ii, "Preface."; [2 pgs], "Contents."; [1]-199, Text.; [At end], 6 plates.

VERY SCARCE. "In pure science [Whitehurst] is important chiefly as a geological pioneer who did work in Derbyshire that was published in a well-known book ... in 1778. He established for the first time the succession of the Carboniferous strata: limestone, Millstone grit (named by him), and coal measures. Whitehurst formulated the general proposition of a worldwide orderly superposition of strata, each with its characteristic lithology and fossils. Although the proposition was somewhat vaguely imagined, he here hit on the most significant of all geological generalizations. ... He was among the first to recognize the true nature and origin of this great class of rocks, the basalts, and thus to establish the fact of volcanism in past geological times." —DSB

Whitehurst was a noted horologer and geologist. "The original design of this work, which he began

## WHITLOCK

to prepare while living at Derby, was to facilitate the discovery of valuable minerals beneath the earth's surface. Ultimately he advanced the idea of volcanic origin. His Inquiry, a minor classic of geology, went through three editions by 1792.

REFERENCES: BL. • DSB: 14, 311-2. • Hoover Collection: no. 884. • *USGS Library Catalog*.

**5019. 2nd edition, 1786:** An inquiry into the original state and formation of the earth; deduced from facts and the laws of nature. The 2d ed., considerably enl. ... By John Whitehurst ... London, Printed for W. Bent, 1786.

4°: [12], 283 p., frontispiece (portrait), 7 plates. VERY SCARCE.

**Facsimile reprint, 1978:** *An inquiry into the original state and formation of the Earth*. New York, Arno Press, 1978. Reprint of the 2d ed., 1786, printed for W. Bent, London. 283 p., [8] leaves of plates (5 folding). [ISBN 0405104650].

REFERENCES: BL. • Hoover Collection: no. 886.

**5020. German transl., 1788:** John Whitehursts Mitglieds der Königlichen Großbritannienischen Societät der Wissenschaften Untersuchungen über den ursprünglichen Zustand und die Bildung der Erde aus dem Englischen nebst Zusätzen und Anmerkungen des Uebersetzers und mit zwei Kupfer Tafeln. Leipzig, Weygand, 1788.

8°: [10], 288 p., 2 plates. VERY SCARCE.

REFERENCES: BL. • LKG: XIII 133a.

**5021. — English, 1792 [Collected works].**

The Works of John Whitehurst, F.R.S. With Memoirs of his Life and Writings. London, Printed for W. Bent, 1792.

8°: [c448] p., [11] leaves of plates (8 folded), illus., portrait. PAGE SIZE: 270 x 230 mm.

VERY SCARCE. Edited by Charles Hutton [1737-1823] this volume contains the collected writings of Whitehurst together with a biography and analysis.

**Contents:** Memoirs of the life and writings of the author. — An inquiry into the original state and formation of the earth. — An attempt toward obtaining invariable measures of length, capacity, and weight, from the mensuration of time, independent of the mechanical operations requisite to ascertain the center of oscillation, or the true length of pendulums. — Appendix to Mr. Whitehurst's Attempt toward obtaining an invariable measure, by the editor. — Three papers, on different subjects, from the Philosophical transactions: I. Thermometrical observations at Derby. II. An account of a machine for raising water, at Oulton in Cheshire. III. Experiments on ignited substances.

REFERENCES: BL.

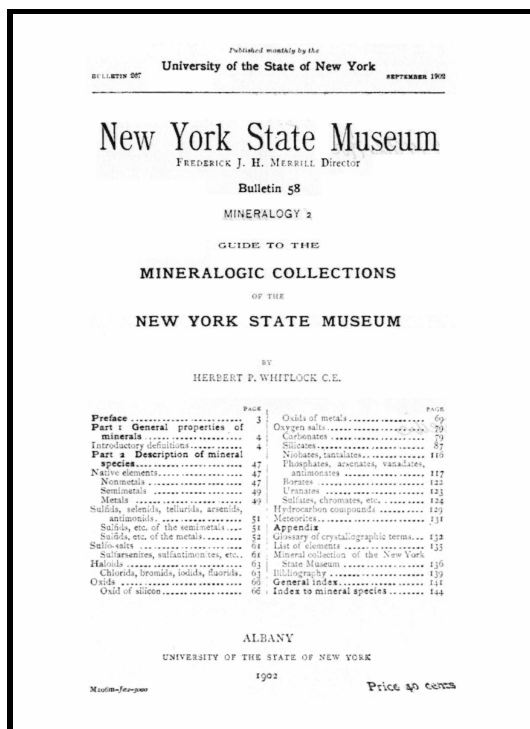
**WHITLOCK, Herbert Percy.** (BORN: New York, U.S.A., 1868; DIED: New York City, New York, U.S.A., 1948) *American mineralogist*.

Certified engineer who graduated from the Columbia University School of Mines, 1889. Whitlock became an assistant in mineralogy at Columbia University in 1892. He was appointed in 1916 the mineralogist for New York State mineralogist. In 1918, he moved on to the curatorship of the mineral collections of The American Museum of Natural History in New York City, where he remained until his retirement.

REFERENCES: ABA: I 1732, 36-39; II 670, 103-105. • *American Men of Science*. 5th ed., New York, 1933. • Poggendorff: 6, 2868. • WBI. • *Who Was Who in America*.

**5022. — English, 1902 [First edition].**

... | Guide To The | Mineralogic Collections | Of The | New York State Museum. | By | Herbert



GUIDE, 1902

P. Whitlock, C.E. | [List of contents] | Albany | University Of The State Of New York | 1902.

8°: [1]-147, [1] p., 39 photographic plates of minerals, 249 text illus. Printed wrappers. Published as *New York State Museum Bulletin*, 58, Mineralogy 2.

**CONTENTS:** [1-2], Title page, verso "University of the State of New York ..."; [3], "Preface."; 4-131, Text.; 132-138, "Appendix."; 139, "Bibliography."; 140, Blank.; 141-143, "General Index."; [144]-147, "Index To Mineral Species."; [1 pg], Blank.

VERY SCARCE. This elementary text briefly describes the minerals contained in the collection of the New York State Museum listing their properties, crystallography, etc., the whole arranged according to the Dana classification. The appendices contain a glossary and bibliography.

REFERENCES: NUC. • *USGS Library Catalog*.

**5023. — English, 1903.**

List of New York mineral localities. Albany, University of the State of New York, 1903.

8°: 108 p. Bibliography: p. 11-21. Bulletin (New York State Museum), no. 70.

VERY SCARCE. A list of the mineral occurrences of New York state, published as *Bulletin of the New York State Museum*, no. 70.

REFERENCES: NUC. • *USGS Library Catalog*.

**5024. — English, 1910.**

Calcites of New York by Herbert P. Whitlock. New York State Museum, Memoir 13. Albany, 1910.

4°: 190 p., 27 plates.

VERY SCARCE. The species calcite is an almost inexhaustible subject from the standpoint of the crystallographer, and many important monographs have been published describing the forms from different localities. The author has now taken up the calcites of New York, which have been obtained from a wide range of different localities, among which that of Rossie has been famous for nearly a 100 years. The thoroughness of this investigation will be appreciated from the fact that some twenty-five plates are needed to show the different types of crystals with their wide range of forms; among these a considerable number of new ones are noted.

REFERENCES: *American Journal of Science*: 4th Series, 31, (1911), 337. • NUC. • *USGS Library Catalog*.

### The Story of Minerals

**5025. — English, 1925** [First edition].

The Story of Minerals. New York, American Museum of Natural History, 1925.

8°: 144 p., black & white photos, color frontispiece (azurite).

SCARCE. This elementary guide to minerals contains a short history of the American Museum of Natural History's mineral collection, properties of mineral, brief descriptions, etc. It is illustrated with good quality photographs of some of the museums most prized specimens.

**Chapters:** History and Sources of the Mineral Collection, What is a Mineral, Nature's Mathematics, Mimicry of Minerals, Water as a maker of minerals, changes and decay in minerals, Elements, Scaphides and haloids, oxides, carbonates, silicates, silicates (continues), silicates (continued), phosphates and sulphates.

**Another edition, 1932:** *The Story of the Minerals* New York, American Museum of Natural History, 1932. 144 p., colored frontispiece.

**Another edition, 1946:** *The Story of the Minerals*. Handbook No. 12. New York, American Museum of Natural History, 1946. 128 p.

REFERENCES: NUC. • *USGS Library Catalog*.

**WHITMAN, Alonzo Garcelon.** (BORN: Auburn, Maine, U.S.A., 7 September 1842; DIED: ?) *American educator & author*.

REFERENCES: ABA: I 1732, 84; II 670, 147. • *Herringshaw's National Library of American Biography*. • WBI.

**5026. — English, 1872.**

Notes on Mineralogy: designed for Use in the English High School, Boston. Lewiston (Maine), Printed at the Journal Office, 1872.

8°: iv, 134 p. PAGE SIZE: 177 x 122 mm.

VERY SCARCE. Co-authored with Joseph W. Keene. This is a rather scarce mineralogical Americana, printed in Lewiston, Maine. It is an academic guide to mineralogy, which treats properties, various physical and chemical tests, descriptions, etc. containing also a chapter on geology. It was written to accompany lectures given in the English High School of Boston.

REFERENCES: NUC. • *USGS Library Catalog*.

**WIDENMANN, Johann Friederich Wilhelm.** (BORN: Kirchheim an der Teck, Germany, 5 February 1764; DIED: Michelstadt, Schwaben, Germany, 13 March 1798) *German mineralogist & mining expert*.

Widenmann was the first general secretary of mining in Stuttgart. In 1790, he accepted a professorship of mining and mine engineering at the technical high school in Karlsruhe.

REFERENCES: Baur, *Allgemeines historisches Handwörterbuch*, 1803. • DBA: I 1363, 281-283. • Hofrichter, J.K., "Alois Beck von Widmannstätten," *Mittheilungen des historisch-vereins für Steiermark*, 2 (1851), 144-50. • Meusel, *Verstorbenen Deutschen Schriftsteller*, 1802-16. • *Neue Schrift. naturforscher Freunde in Berlin*. • Poggendorff: 2, cols. 1314-5. • WBI.

**5027. — German, 1792.**

Ueber die Umwandlung einer Erd- und Stein-Art in die andere. Eine Abhandlung, welche von der Königl. Akad. der Wissenschaften für das Jahr 1791, den Preis von einhundert Dukaten erhalten hat. Von Johann Friedrich Widenmann [!], ... Auf Veranstaltung der Königlichen Akademie herausgegeben. Berlin: in der Königl. Preussl. Akademischen Kunst- und Buchhandlung, 1792.

8°: [4], 268 p.

VERY SCARCE. This book, written in response to the following question: "Die Umgänge und Uebergänge einer Erd- und Stein-Art in die andere betreffend?" won the prize of the Berlin Royal Academy for the year 1791. It is concerned with the correct classification of minerals by chemical means. It contains numerous commentaries on the work of Werner, Bergman, Kirwan, Cronstedt, Wiegand, Scheele, and many others. It also contains an interesting discussion of the origins of basalt that defend Werner's theories.

REFERENCES: *Allgemeine Literatur-Zeitung*: May, 1795, 259. • *Freilich Sale Catalog*: no. 557. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 247. • NUC: 662, 25 [NW 0279778]. • Ward & Carozzi, *Geology Emerging*, 1984: no. 2333.

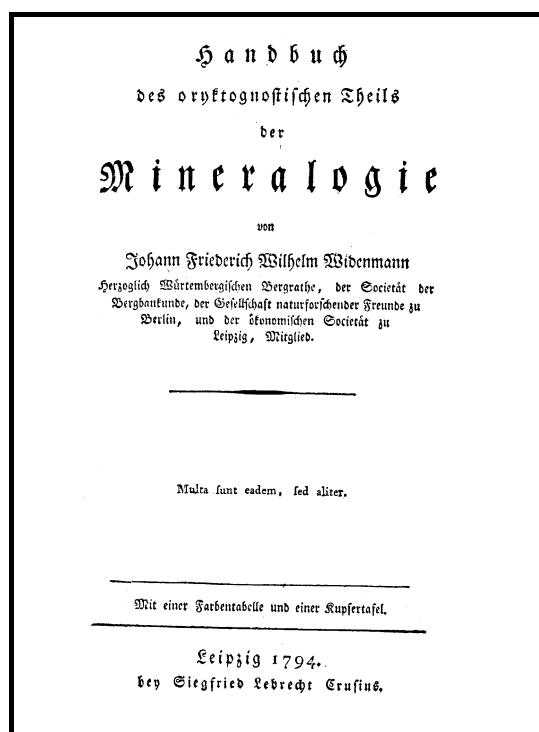
**5028. — German, 1794.**

Handbuch | des oryktognostischen Theils | der | Mineralogie | von | Johann Friederich Wilhelm Widenmann | [...4 lines of titles and memberships...] | [tapered rule] Multa sunt eadem, fed aliter. | [rule] | Mit einer Farbentabelle und einer Kupfertafel. | [rule] | Leipzig 1794 | bey Siegfried Lebrecht Crusius.

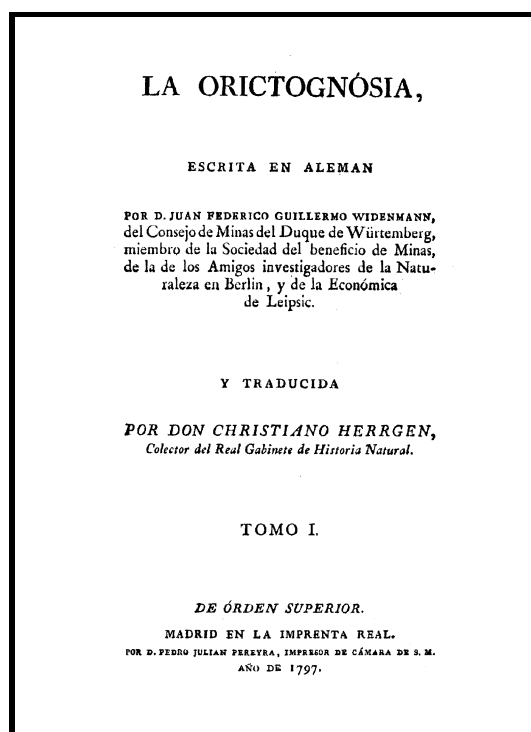
8°: \*8 \*\*8 A-3U8; 540ℓ.; [i]-xiv, [10], [1]-1040, [16] p., 2 double page plates (one hand colored). PAGE SIZE: 200 x 115 mm. VERY SCARCE.

CONTENTS: [i-ii], Title page, verso blank.; [iii], Dedication to the Ökonomischen Societät in Leipzig; [iv], Blank.; [v]-xiv, "Vorrede."; [6 pgs], "Inhalt."; [4 pgs], "Erklärung der Kupfer."; [1]-1040, Text.; [15 pgs], "Register | über die diesem Werke enthaltenen Kunstwörter."; [1 pg], Blank.

REFERENCES: *Allgemeine Literatur-Zeitung*: May, 1795, 225. • Beekman, *Systematische Mineralogie*, 1906: 168. • Cobres, *Deliciae Cobresianae*, 1782: 2, 699. • Fischer, *Mineralogie in Sachsen*, 1939: 304. • Gatterer, *Mineralogischen*



HANDBUCH, 1794



LA ORICTOGNÓSIA, 1797

*Literatur*, 1798-9: 1, 30. • LKG: XII 137. • NUC: 662, 25 [NW 0279776].

**5029. Spanish transl., 1797-8:** *La Orictognósia* | Escrita En Aleman | Por D. Juan Federico Guillermo Widenmann, | [...5 lines of titles and memberships...] | Y Traducida | Por Don Christiano Herrgen, | Colector del Real Gabinete de Historia Natural. | Tomo I. [-II.] | De Orden Superior. | Madrid En La Imprenta Real. | Por D. Pedro Julian Pereyra, Impresor De Cámara De S.M. | Año De 1797 [-1798].

2 vols. [VOL 1] 8°: [12], 396 p.; [VOL 2] 8°: 466, [2] p., 2 plates (one handcolored).

VERY SCARCE. Translation by Christiano Herrgen [see note below] from *Handbuch des oryktognostischen Theils der Mineralogie* (Leipzig, 1794). Encouraged by ANDRÉS MANUEL DEL RÍO's example, and with the anxious support of the government to diffuse mineralogical knowledge in Spain, Herrgen was commissioned to prepare a modern textbook of mineralogical science. For his foundation, he choose the prevailing theoretical framework of Werner, and the most thorough treatise so far published. Widenmann's *Handbuch* was prepared with annotations supplied by the translator. The manuscript was then given over to José Clavijo Fajardo [??-??], Director of the Real Gabinete de Historia Natural (Royal Cabinet of Natural History) in Madrid, who reviewed it for style and correctness.

REFERENCES: LKG: XII 138a. • Maffei & Rua Figuera, *Bibliografía Mineral*, 1871-2: 3, 256. • NUC: 662, 25 [NW 0279777].

**WIEDEMANN, Christian Rudolph Wilhelm.** (BORN: Braunschweig, Germany, 1770; DIED: Kiel, Schleswig-Holstein, Germany, 31 December 1840) *German physician*.

Wiedemann received his M.D. from the University of Jena in 1792. He became instructore of anatomy and surgery

at the Collegium in Braunschweig, and from 1805, professor of medicine at the University of Kiel.

REFERENCES: ADB. • DBA: I 1365, 99-110; II 1401, 106-107. • Hamberger & Meusel, *Gelehrte Teutschland*, 1796-1834. • Hirsch, *Biographisches Lexikon*, 1884-8. • Meusel, *Verstorbenen Teutschen Schriftsteller*, 1802-16. • *Neuer Nekrolog der Deutschen*. • Poggendorff: 2, col. 1318. • WBI.

### 5030. — German, 1800.

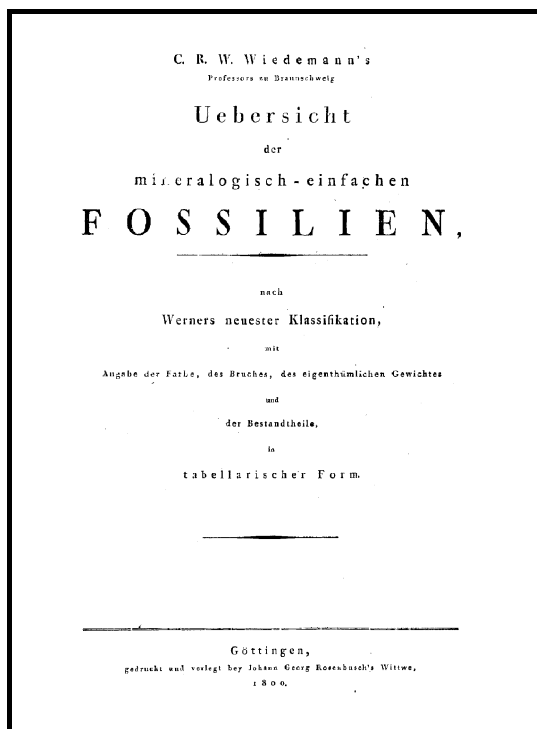
C.R.W. Wiedemann's | Professors zu Braunschweig | Uebersicht | der | mineralogisch – einfachen | Fossilien, | [tapered rule] | nach | Werners neuester Klassifikation, | mit | Angabe der Farbe, des Bruches, des eigenthümlichen Gewichtes | und | der Bestandtheile, | in | tabellarischer Form. | [tapered rule] | [double rule] | Göttingen, | gedruckt und verlegt bey Johann Georg Rosenbusch's Wittwe, | 1800.

8°: \*2 \*\*2 A-N<sup>2</sup> O<sup>1</sup>; 31ℓ.; [i]-vii, [1], [1]-53, [1] p. PAGE SIZE: 370 x 225 mm. uncut.

CONTENTS: [i-ii], Title page, verso blank.; [iii]-vii, "Vorerinnerung."—signed C.R.W. Wiedemann, 30 November 1799. [1 page], Blank.; [1], Sectional title page, "Uebersicht | der | mineralogisch-einfachen Fossilien | in | tabellarischer Form."; 2-53, Tables, each spread across two pages.; [1 page], "Zusätze und Berichtigung."

VERY RARE. Description of minerals in large table format arranged according to Werner's principles. The headings of the tables are Class, Order, Family, Species, Color, Break, Specific Weight and Composition.

REFERENCES: Freiesleben, *Uebersicht der Litteratur*,



UEBERSICHT, 1800



WIIK

1822: 173. • LKG: XII 151.

**WIIK, Fredrik Johan.** (BORN: Helsingfors, Finland, 16 December 1839; DIED: Helsingfors, Finland, 1909) *Finnish mineralogist, petrologist and structural geologist.*

Wiik was educated at the University of Helsingfors, receiving his doctorate in 1865. In 1877, he was appointed to the chair of mineralogy and geology at the University of Helsingfors. He held the post for 20 years, retiring due

to ill health. Member of the Finnish Academy of Science. Wiik died alone, on a geological excursion, with hammer in hand.

REFERENCES: *Acta Societatis Scientiarum Fennicae*: 40 (1911), 1-19 [by W. Ramsay]. • *Finsk Biografisk Handbok*: 2, cols. 2391-2. • Hausen, *History of Mineralogy in Finland*, 1968: 24-6 & 43-8, portrait (p. 16a). • Poggendorff: 3, 1444, 4, 1635-6 & 5, 1371. • Renvall, *Finlands Universitet*, 1891. • Sarjeant, *Geologists*, 1980: 3, 2425. • SBA: Scandinavian Biographical Archive: B-368, 208-219. • WBI.

**5031. — Swedish, 1865** [Dissertation].

Bidrag | till | Helsingforsstraktens mineralogi och geognosi. | Akademisk afhandling, | hvilken, | med den vidtberömda Filosofiska Fakultetens | vid Kejsarliga Alexanders-Universitetet i Finland tillstånd, | under inseende af | D:r Adolf Edvard Arppe, | Professor i Kemin, Universitetets n.v. Rektor, | till offentlig granskning framställes | af | Fredrik Johan Wiik, | Filos. Mag. | uti hist.-filol. auditorium den 4 febr. 1865 | p.v.t.f.m. | [ornate rule] | Helsingfors, | J. C. Frenckell & Son, 1865.

8°:  $\pi^1$  1-2<sup>8</sup> 3<sup>4</sup> [4]<sup>1</sup>; 22 $\ell$ .; [2], 42 p.

CONTENTS: [2 pgs], Title page, verso blank.; [1]-42, Text.

RARE. Chemical investigations on the minerals appearing in the vicinity of Helsingfors. Most of these minerals are rock-forming, of more exotic species the paper reports on chrysoberyll. [Entry by Johan Kjellman]

REFERENCES: NUC. • SWIM.

**5032. — Swedish, 1881.**

Mineral-Karakteristik. | en handledning vid bestämmandet | af | Mineralier och Bergarter | af | D:r F.J. Wiik. | Professor i mineralogi och geologi. | [rule] | Med en lithogr. planche. | [ornate rule] | Helsingfors, | Finska Litteratursällskapets tryckeri, 1881.

8°:  $\pi^4$  [1]-13<sup>8</sup> 14<sup>5</sup>; 113 $\ell$ .; [2], [i]-vi, [1]-217, [1] p., one plate (showing crystal drawings).

CONTENTS: [2 pgs], Title page, verso blank.; [i]-iv, Foreword.; [v]-vi, Contents.; [1]-208, Text.; [209]-217, Mineral index.; [1 pg], Errata.

RARE. An early and original manual of mineral identification, in which the minerals are identified according to three different "mineral systems," a crystallographic, a physical and a chemical. The author presents here his own "shortened modification" of Millers crystallographic notations. For example, (111) is written abc, (123) becomes ab2c3 and (110) ab. Of special interest is the part of the book (pp. 80-90) where the author presents his original dynamic idea of matter, i. e. forces or centra of forces constitutes the smallest part of the material world. Elements are complex combinations of multiples of the atomic weights of the three fundamental elements hydrogen, nitrogen and oxygen, whose elementary forces (dynamider) are positive (passive), neutral and negative (active) respectively. Numbers that reappear in the element-series are for example 6 and 8, and



## WILHELM

these can be referred to the simple crystal forms the octahedron and the cube. Reversedly, the morphologies of crystalline substances give, according to Wiik, clues to the relative combination of the three elementary forces in the molecules. In this respect mineralogy serves an important purpose as, according to the author, the study of crystalforms gives direct evidence to the fundamental aspects of the physical world. [Entry by Johan Kjellman]

REFERENCES: Dana's 7th (Bibliography): 83. • *Geologiska Föreningens i Stockholm Förhandlingar*: 71 (1882), 46-52 [review by H. Sjögren]. • Poggendorff: 3, 1444, 4, 1635-6 & 5, ??? • Sarjeant, *Geologists*, 1980: 3, 2425.



WILHELM

**WILHELM, Gottlieb Tobias.** (BORN: Augsburg, Germany, 17 October 1758; DIED: Augsburg, Germany, 12 December 1811) *German theologian*.

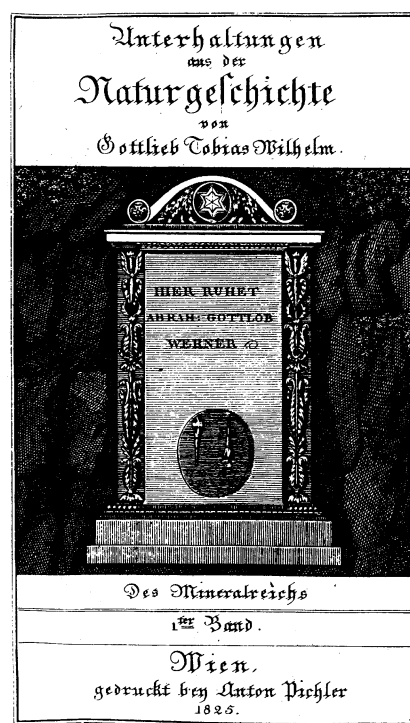
REFERENCES: DBA: I 1371, 240-244. • Hamberger & Meusel, *Gelehrte Deutschland*, 1796-1834. • WBI.

### 5033. — German, 1824-8 [First edition].

[Engraved title page, contained with in a double rule box:] Unterhaltungen | aus der Naturgeschichte. | [vignette] | Des Mineralreichs | [rule] | I<sup>ter</sup> Band. | [rule] | Augsburg | bey Martin Engelbrecht 1824.

2 vols. [VOL 1: 1824] 8°:  $\pi^1 1^8$  A-Sss<sup>4</sup> Ttt-Oooo<sup>8</sup>; 417 $\ell$ .; [2], [i]-xvi, [1]-786 (i.e., 816) p., engraved title page, plates I-LXIV (all hand-colored, except V-VI, VIII-XII). Page 592 is misnumbered 562, with the mistake carried on for the next 30 pages. [VOL 2: 1828] 8°:  $\pi^8 +^8$  A-Yyy<sup>4</sup> Zzz-Aaaaa<sup>8</sup> Bbbbb<sup>2</sup>; 490 $\ell$ .; [2], [i]-xxx, [1]-958 (i.e., 948) p., engraved title page (showing a bust of Wilhelm), plates I-LXVIII (all hand-colored). Among numerous page number errors is page 737 being misnumbered 747, with the mistake carried on for the next 10 pages. Other pagination errors do not change the total page count.

CONTENTS: [Vol 1] [2 pgs], Engraved title page, verso blank; [i]-x, "Vorrede."; xi, "Berichtigungen."; xii-xvi, "Uebersicht | der | Abschnitte und Kapitel | des | ersten Bandes der Unterhaltungen aus der | Naturgeschichte des



UNTERHALTUNGEN, 1825

Mineralreiches."; [1]-786 (i.e., 816), Text.; [At end], Plates I-LXIV.

[Vol 2] [2 pgs], Engraved title page, verso blank; [i]-ii, "Anzeige."; [iii]-xiv, "Vorwort."; [xv]-xxx, "Uebersicht | der | Abschnitte und Kapitel | des | zweiten Bandes 1sten und 2ten Abtheilung | der | Unterhaltungen aus der Naturgeschichte | des Mineralreichs."; [1]-958 (i.e., 948), Text.; [At end], Plates I-LXVIII.

RARE. Published as the concluding section of the well-known German natural history work, *Unterhaltungen aus der Naturgeschichte*, which described and illustrated every aspect of nature. Wilhelm, who wrote the accompanying text, based his information on the writings of the famous German mineralogist Werner. After an introduction that explains what the science of mineralogy is about, volume one describes oryctognosie, external characteristics of minerals, crystal morphology, the different forms of minerals, transparency, hardness, etc. This is followed by a lengthy section describing geognosie along Wernerian theories. Volume two in its introduction describes the systematics of mineral classification and the practical aspects of collecting minerals. The remaining portion of the book is devoted to a descriptive mineralogy arranged in a very strange manner. However, Wilhelm's work is almost always sought today for the many quaint, hand-colored plates it contains that show minerals, fossils, geologic phenomena, laboratory apparatus and scenic views. The quality of the illustrations and tone of the writing would indicate that this work was intended for youthful readers, interested in learning about the natural sciences, but it is not recorded in any standard bibliography of children's

literature.

The detailed collation and pagination for this rare first edition was provided by Leslie M. Overstreet, Curator of Rare Books, Smithsonian Libraries, based on a copy held in that collection. The plates are probably identical to the other versions, as it would have been economically prohibitive to recreate the thousands of images for the complete work, which originally appeared in 25 volumes between 1794 and 1828. The right to publish the work, together with a stock of plates was then purchased by the Viennese publisher Anton Pichler, who published another edition of the *Unterhaltungen* including the mineralogy volumes [which see next entry]. Then in 1834, a 'New Edition' was brought out in Augsburg by J.A. Schlossers, who had acquired the remaining stock from the original publisher, Martin Engelbrecht [which see subsequent entry].

REFERENCES: Nissen (BBI): no. 2152 [background info.]. • Nissen (ZBI): no. 4408 [background info.]. • Sinkankas, *Gemology Bibliography*, 1993: no. 7206. • Stafleu & Cowan, *Taxonomic Literature*, 1976-88: [botanical section described]. • *USGS Library Catalog*.

**5034. Another edition, 1825-8:** [Contained within a double rule border:] *Unterhaltungen* | aus der | *Naturgeschichte* | von Gottlieb Tobias Wilhelm | [Illustration showing a representation of Werner's tombstone, with the inscription, Hier Ruhet | Abrah. Gottlob | Werner.] | Des Mineralreichs | [double rule] | 1.<sup>ter</sup> Band. [-2.<sup>ter</sup> Band.] | [rule] | Wein, | gedruckt bey Anton Pichler | 1825. [-1828.]

2 vols. [VOL 1: 1825] 8°:  $\pi^1$  18 A-3E<sup>8</sup>; 417 $\ell$ .; [2], [i]-xvi, [1]-816 p., engraved title page, 64 plates (numbered I-LXIV; 57 hand-colored). [VOL 2: 1828] 8°:  $\pi^1$  \*6  $\dagger$  8 A-3N<sup>8</sup> 3O<sup>2</sup>; 490 $\ell$ .; [2], [i]-xxx, [1]-948 p., engraved title page, 68 plates (numbered I-LXVIII; all hand-colored). PAGE SIZE: 174 x 106 mm.

CONTENTS: [Vol 1] [2 pgs], Engraved title page, verso blank.; [i]-x, "Vorrede."; xi, "Berichtigungen."; xii-xvi, "Uebersicht. | Der | Abschnitte und Capitel | des | ersten Bandes der Unterhaltungen aus der Na= | turgeschichte des Mineralreichs."; [1]-816, Text.; [At end], Plates.

[Vol 2] [i-ii], Engraved title page, verso blank.; [iii]-xiv, "Vorwort."; [xv]-xxx, "Uebersicht | der | Abschnitte und Capitel | des | zweyten Bandes 1<sup>ten</sup> und 2<sup>ten</sup> Abtheilung | der | Unterhaltungen aus der Naturgeschichte | des Mineralreichs."; [1]-948, Text.; [At end], Plates.

VERY SCARCE. Published as volumes 26 and 27 of this publisher's version of the *Unterhaltungen aus der Naturgeschichte*. Werner, from whom the text is derived, is commemorated on the title pages and the frontispiece of the first volume.

REFERENCES: BL. • *Freilich Sale Catalog*: no. 558. • NUC. • Sinkankas, *Gemology Bibliography*, 1993: no. 7207.

**5035. 2nd edition, 1834:** [Contained within a double rule border:] *Unterhaltungen* | aus der | *Naturgeschichte* | von Gottlieb Tobias Wilhelm | [Illustration showing a representation of Werner's tombstone, with the inscription, Hier Ruhet | Abrah. Gottlob | Werner.] | Des Mineralreichs | [double rule] | 1.<sup>ter</sup> Band. [-2.<sup>ter</sup> Band.] | [rule] | Neue Ausgabe | Augsburg 1834. | In J.A. Schloßers Buch und Kunsthandlung.

2 vols. [VOL 1] 8°: xvi, 816, [55] p., 64 plates (57 hand-colored). [VOL 2] 8°: 97, xxx, 948 p., 68 hand-colored plates.

RARE. A quick check of the text makes it appears to be little modified from the previous Viennese edition., and may be the reissue of the remaining sheets and plates from the 1825-8 edition, by a different Augsburg publisher.

REFERENCES: BL. • NUC. • Sinkankas, *Gemology*

*Bibliography*, 1993: [no copy listed].

**WILLIAMS, George Huntington.** (BORN: Utica, New York, U.S.A., 1856; DIED: Baltimore, Maryland, U.S.A., 1894) *American crystallographer & mineralogist*.

Williams was educated at Amherst, graduating in 1878. He then went on to Heidelberg, receiving his Ph.D. in 1882. In 1891, he became professor of inorganic geology at Johns Hopkins University.

REFERENCES: ABA: I 1749, 22-23. • Adams, *Dictionary of American Authors*, 1904: 426. • *American Geologist*: 15 (1895), no. 2, 69-81, plate 3 (portrait) [by J.M. Clarke]. • Barr, *Index to Biographical Fragments*, 1973: 281. • *Bulletin of the Geological Society of America*: 6 (1894), 432-40, plate 27 (portrait). • DAB: 10, pt. 1, 263. • Elliott, *Biographical Index*, 1990: 247. • *Herringshaw's National Library of American Biography*. • *Proceedings of the Geological Society, London*: 1895, p. lii-liii. • Sarjeant, *Geologists*, 1980: 3, 2429. • WBI. • *Who Was Who in America: Historical volume*, 654. • Williams, T., *Biography of George H. Williams*. New York, 1896. [1]-150 p.

**5036. — English, 1890** [First edition].

Elements | of | *Crystallography* | For Students Of Chemistry Physics | And Mineralogy | by | George Huntington Williams PhD | Professor In The Johns Hopkins University | [ornament] | New York | Henry Holt And Company | 1890.

8°: [i]-viii, [1]-250 p., frontispiece, illus., folding plate, diags. Bibliography, p. vii-viii.

SCARCE. A well recieved elementary textbook of crystallography, stressing morphological aspects, mensuration, and preparation of drawings. It was long a standard beginner's text.

Contents: Preface. Bibliography. I. Crystal Structure. II. General Pnicipals of Crystallography. III. The Isometric System. IV. The Tetragonal System. V. The Hexagonal System. VI. The Orthorhombic System. VII. The Monoclinic System. VIII. The Triclinic System. IX. Deduction of all Theoretically Possible Classes of Crystal Forms. X. Crystal Aggregates. XI. Imperfections of Crystals. Appendix: On Zones, Projection and the Construction of Crystal Figures. Index.

REFERENCES: Dana's 7th (Bibliography). • NUC.

**5037. 2nd edition, 1891:** Elements | of | *Crystallography* | For Students Of Chemistry Physics | And Mineralogy | by | George Huntington Williams PhD | Professor In The Johns Hopkins University | Second Edition, Revised And Enlarged. | [ornament] | New York | Henry Holt And Company | 1891.

8°: [i]-x, [1]-250 p., 383 illus. SCARCE.

REFERENCES: NUC.

**5038. 3rd edition, 1892:** Elements | of | *Crystallography* | For Students Of Chemistry Physics | And Mineralogy | by | George Huntington Williams PhD | Professor In The Johns Hopkins University | Third Edition, Revised And Enlarged | [ornament] | New York | Henry Holt And Company | 1892.

8°: [i]-x, [1]-270, [1]-8 p., frontispiece (colored crystal drawings), 383 illus. PAGE SIZE: 185 x 124 mm.

CONTENTS: [i-ii], Title page, verso "Copyright 1890."; [iii]-v, "Preface."; [vi], Blank.; vii, "Contents."; [viii], Blank.; ix-x, "Bibliography."; [1]-235, Text.; [236], Blank.; 237-266, "Appendix."; 267-270, "Index."; [1]-8, "The American Science Series." (Advertisements for books).

SCARCE. Somewhat expanded edition covering the same material as the first edition.

REFERENCES: Dana's 7th (Bibliography): 83. • NUC.

## WINTHER

**5039. Reissue, 1899:** Elements of Crystallography for Students of Chemistry, Physics and Mineralogy. London: Macmillan & Co., 1899.

8°: [i]-x, [1]-270, [1]-8 p., frontispiece (colored crystal drawings), 383 illus.

SCARCE. The text is Identical to the third edition (New York, 1892).

REFERENCES: NUC.

### **5040. — English, 1906.**

Elements of crystallography, for students of chemistry, physics and mineralogy, by George Huntington Williams. 3d ed. rev. and enl. New York, Holt, 1906.

x, 270 p. col. front., illus., fold. plate, tables, diagrs. VERY SCARCE.

### **WILSON-MOORE, Cuningham.**

#### **5041. — English, 1893.**

The Minerals of Southern Africa by Cuningham Wilson-Moore and W.H. Carrington Wilmer. Johannesburg, Argus Printers and Publishing Co., 1893.

8°: iii, 119 p., illus.

VERY SCARCE. Co-authored by W.H. Carrington Wilmer. This is the first book to feature and describe the minerals of southern Africa. It is also one of the very first books to be published in Johannesburg, South Africa.

REFERENCES: BL: [no copy listed]. • NUC: ?? • Spencer, *Catalogue of Topographical Mineralogies*, 1948: ??.

**WINKLER, Gustav Georg.** (BORN: Audorf, Germany, 2 August 1820; DIED: 26 January 1896) *German mineralogist & geologist.*

Ph.D. from the University of Munich, 1855. Docent for geology at the University of Munich, 1859–68. Appointed assistant to the geological collection and professor of mineralogy and geology at the Industrial School of Munich.

REFERENCES: ADB: 43, 451. • DBA: II 1413, 264. • Lambrecht & Quenstedt, *Catalogus*, 1938: 464. • Poggendorff: 3, 1452. • WBI.

#### **5042. — German, 1855.**

Die | Pseudomorphosen | Des | Mineralreichs. | [rule] | Kritische Zusammenstellung aller bisher aufgefundenen That- | achen und versuchten Erklärungen mineralischer Neubildungen, | mit einem Vorschlag neuer Nomenklatur und Eintheilung | derselben | von | Gustav Georg Winkler, | Doctor der Philosophie. | Von der königlichen Ludwigs-Maximilians-Universität München | im Jahre 1855 gekrönte Preisschrift. | [ornate rule] | München, 1855. | Joh. Palm's Hofbuchhandlung.

8°: vi, 136 p. PAGE SIZE: 216 x 134 mm.

VERY SCARCE. A clear and concise review of pseudomorphism, containing a critical summation of all facts and explanations pertaining to the phenomena as it relates to the mineral kingdom. Two types of pseudomorphism are described. The first, produced

principally from atmospheric effects, causes the original material to be altered. The second, produced through mineralizing solutions, replaces the original mineral with a new mineral that is carried in the solution. The book describes specific replacements, gives commentary of the viewpoints of Blum, Haidinger, Landgrebe, and others, and contains a large descriptive section.

REFERENCES: *American Journal of Science*: 2nd Series, 22 (1856), 247.

### **WINTHER, Alexander Polycarpus.**

#### **5043. — German, 1693.**

Krieg der Elementen, Wider das bejammernswürdige Sicilia, oder Beschreibung des erschrecklichen Bebens und Erschüttern der Erden, grausamen Überlauffs und Sturm des Meers auch höchstentsetzlichen Toben und siedenden Wüten des Feuer-ausspeyenden Bergs Ætna, wodurch jüngsthin nicht allein viel herrlich-erbaute große Städte, schöne Schlösser und lustige Flecken in Sicilia verschüttet und verschluengen gerrätet und verwüstet sondern über das noch viel tausend Menschen lebendig gleich am erschlagen und zerschmettert oder durch die Staats-Fluthen und das um sich fressende Feuer jämmerlich verderben und unkommen sind. Nebst Grund-richtiger Ausführung was solches Erdschüttern sey woher es komme und was es gemeinlich bedeute. Mit allerhand denckwürdigen Geschichten ausgezieret und vorgestellt von Alexander Polycarpus Winther ... Leipzig, Bey Joh. Fried. Gleditsch, 1693.

4°: A-F<sup>4</sup> G<sup>2</sup>; 26 $\ell$ .; 52 p.

RARE. An early description of the volcano of Aetna.

REFERENCES: BL: [1568/2657].

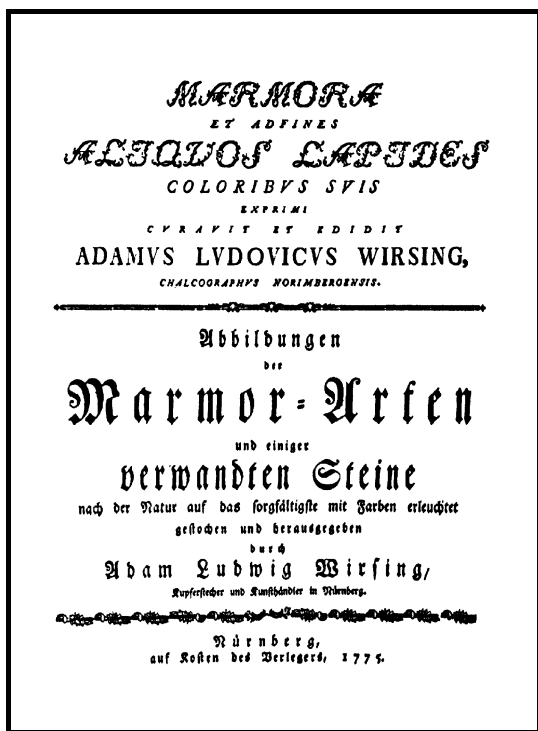
**WIRSING, Adam Ludwig.** (BORN: Dresden, Germany, 1733/4; DIED: Nürnberg, Germany, 18 July 1797) *German engraver, colorist & publisher.*

Wirsing operated a successful business as an engraver and publisher in Nürnberg, Germany. He was also the founder of a family of talented German artists. In his youth, he apprenticed to a Nürnberg art dealer, whose daughter he eventually married. Wirsing then expanded the family business into engraving and publishing, which became particularly renowned for realistic depictions of natural objects such as birds, animals, flowers, insects, etc.

REFERENCES: Baur, *Allgemeines historisches Handwörterbuch*, 1803. • DBA: I 1380, 450-452. • Lipowsky, *Baierisches Künstler-Lexikon*, 1810. • Nagler, *Neues allgemeines Künstler-Lexikon*, 1835-52: 21. • Singer, *Allgemeiner Bildniskatalog*, 1930-8: 14. • Thieme & Becker, *Allgemeines Lexikon*, 1907-50: 36, 99. • WBI.

#### **5044. — Latin & German, 1775.**

Marmora | Et Adfines | Aliqvos Lapides | Coloribvs Svis | Exprimi | Cvrvavit Et Edidit | Adamvs Ludovicvs Wirsing, | Chalcographvs Norimbergensis. | [ornate rule] | Abbildungen | der | Marmor=Arten | und einiger | verwandten



MARMORA ET ADFINES ALIQUOS LAPIDES, 1775

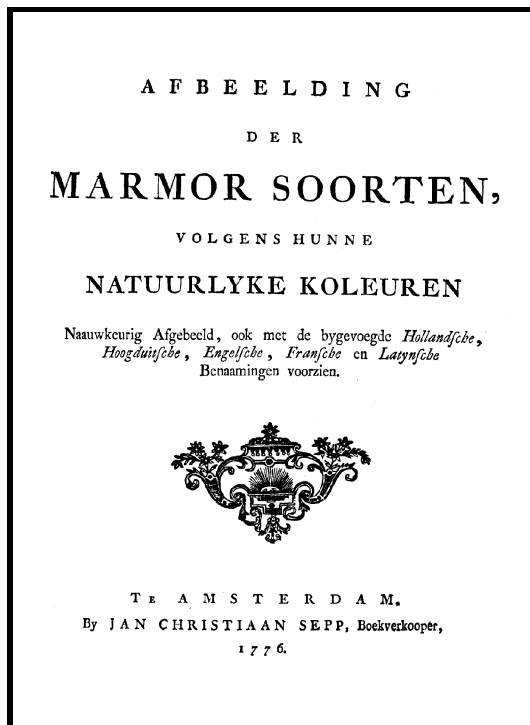
Steine | nach der Natur auf das sorgfältigste mit Farben erleuchtet | gestochen und herausgegeben | durch | Adam Ludwig Wirsing, | Kupferstecher und Kunsthändler in Nürnberg. | [ornate rule] | Nürnberg, | auf Kosten des Verlegers, 1775.

2°: A-R<sup>2</sup>; 32 $\ell$ .; [1]-64 p., 54 hand-colored engraved plates prepared by the author. German and Latin text set in two columns. PAGE SIZE: 334 x 234 mm.

CONTENTS: [1-2], Title page, verso blank.; [3], Quotation.; [4], Blank.; [5]-6, Preface.; [7]-64, Text.

RARE. This highly attractive book describes and illustrates specimens of ornamental marble, and provides mineralogical details of occurrences in locations throughout Germany. Unlike the present day meaning, the word marble during the late eighteenth century referred to any stone that could be cut and polished for decorative purposes; therefore, it is not surprising that each plate of this work illustrates from 4-9 rectangular tablets of polished stone. The spectrum of colors and patterns inherent in natural rock is accurately reflected in the fine hand-colored plates, which exhibit an extraordinary range of patterns of color in their figures. The specimens are classified according to the locality from which they originated and numerically keyed to the text. This original edition appears to be the scarcer of the two published editions, perhaps indicating that the remaining uncolored plates were incorporated into the Amsterdam edition [see next entry].

REFERENCES: *Allgemeines Verzeichniss neuer Bucher*: 1776, p. 43-4. • Beckmann P.Ö.B.: 7, 448 & 9, 606. • *Berlinische Sammlungen*: 9, 424-5. • Cobres, *Deliciae Cobresianæ*, 1782: 2, 761-2. • *L'Esprit des Journaux*: Juillet, 1776, p. 408-9. • *Leipziger allgemeines Verzeichniss*: 1776, 43. • LKG: XVI 309. • NUC: 668, 662 [NW 0379342]. • *Schröter's Journal für die Liebhaber*: 3, 493. • Sinkankas, *Gemology Bibliography*, 1993: no. 7281.



AFBEELDING DER MARMOR SOORTEN, 1776

5045. — Dutch, German, English & French, 1776.

[Dutch title page:] Afbeelding | der | Marmor Soorten, | volgens hunne | Natuurlyke Koleuren | Naauwdeurig Afgebeeld, ook met de bygevoegde Hollandsche, | Hoogduitsche, Engelsche, Fransche en Latynsche | Benaamingen voorzien. | [ornament] | Te Amsterdam, | By Jan Christiaan Sepp, Boekverkooper, | 1776.

[GERMAN TITLE PAGE:]

Abbildungen | der | Marmor=Arten | Nach der Natur auf das sorgfältigste mit Farben erleuchtet/ und mit | beygefügtten Holländischen/ Deutschen/ Englischen/ | Frantzösischen und Lateinischen Namen | herausgegeben. | [ornament] | Amsterdam/ | Bey Johann Christian Sepp/ Buchhändlern/ | 1776.

[ENGLISH TITLE PAGE:]

A Representation | Of | Different Sort | of Marble, | Ingraved and set out in their Natural

## WITSEN

Colours; also set | forth with the Dutch, German, English, French | and Latin names. | [ornament] | Amsterdam: | For John Christian Sepp, Bookseller. | 1776.

[FRENCH TITLE PAGE:]

Représentation | De | Marbres, | Gravés & mis en Couleurs d'après Nature; | Avec Leurs Noms En Hollanois, Allemand, Anglois, François | & Latin. | [ornament] | Amsterdam, | Apud Jean Christian Sepp, Bibliopolam. | 1766 [sic].

[LATIN TITLE PAGE:]

Marmora | Et Adfines | Aliquos Lapides | Coloribus Suis | [ornament] | Amstelædami, | Apud Johannem Christianum Sepp, Bibliopolam. | 1776.

4<sup>o</sup>:  $\pi^{12}$  A<sup>2</sup> B<sup>3</sup> C-E<sup>4</sup> E\*<sup>4</sup> F-G<sup>4</sup> H<sup>5</sup> I-K<sup>4</sup> L<sup>3</sup> M<sup>8</sup> N<sup>2</sup> (H2 signed B2; M3 not signed; M4 misigned M3; M5 missigned M4; M6 missigned M5); 67ℓ.; No pagination. Text interspersed with 100 hand-colored plates. Landwehr calls for a frontispiece, "Marmora et adfines Aliquos Lapides coloris suis," which was not present in either copy examined.

CONTENTS: [2 pgs], Dutch title page, verso blank.; [2 pgs], German title page, verso blank.; [2 pgs], English title page, verso blank.; [2 pgs], French title page, verso blank.; [2 pgs], Latin title page, verso blank.; [1 pg], "Voorbericht."; [1 pg], Blank.; [1 pg], "Vorbericht."; [1 pg], Blank.; [1 pg], "To The Reader."; [1 pg], Blank.; [1 pg], "Au Lecteur."; [1 pg], Blank.; [1 pg], "Lectori."; [1 pg], Blank.; [1 pg], Sectional title page.; [1 pg], Blank.; [1 pg], "Tabula I."; [1 pg], "Tabula II."; [A1r-N2v], Tabula 3—Tabula 75.

RARE. This true polyglot edition with 100 brilliant, hand-colored plates of marble specimens from all parts of Europe is one of the finest works to come from the Amsterdam scientific publishing firm of Jan Christian Sepp. The work was originally issued in 10 parts each covering a different part of Europe where marble was quarried. The number of examples on each plate ranges from 2-9 and these are numerically keyed to the text written by the German naturalist CASMIR CHRISTOPH SCHMIDEL, which is set in four parallel columns (Dutch, German, English, French), with the Latin below. Careful examination reveals the intrigue patterns printed on the plates that were used by the colorist in applying the color wash. In every case, the individual specimens are shown in a squarish-rectangular format, with shadowing giving the plates a three dimensional appearance, and a colorful almost abstract look.

This is the only Amsterdam edition, which utilizes some of the same plates as the original Nürnberg edition of 1775 [see previous entry], as indicated by the signing of "A.L. Wirsung exc. Nor." Side-by-side comparison of the two editions suggests that these plates were printed in Germany but probably colored in Sepp's publishing house. The most complete collation of this work calls for 100 plates, which includes a supplement of 6 plates, with the text describing entries upto Tabula 75 only. Copies in this state are exceptionally rare. Landwehr also calls for a frontispiece which was missing from the

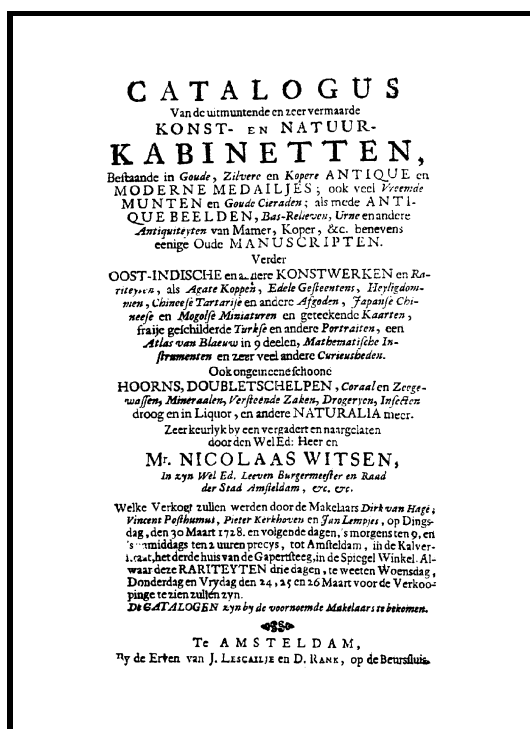
all copies examined for this entry.

REFERENCES: Anonymous, "Stone tome," *The World of Interiors*, Feb., 1994, 100-104. • Cobres, *Deliciae Cobresianae*, 1782: 2, 761-2. • Landwehr, *Studies in Dutch Books*, 1976: p. 1. • LKG: XVI 309. • NUC: 4, 679 [NA 0090293]. • Sankankas, *Gemology Bibliography*, 1993: no. 7282.

**WITSEN, Nicolaes Cornelisz.** (BORN: Amsterdam, The Netherlands, 8 May 1641; DIED: Amsterdam, The Netherlands, 10 August 1717) *Dutch burgomaster*.

Dutch Burgomaster of Amsterdam. Well known for connections to Czar Peter.

REFERENCES: Aa, *Biographisch Woordenboek*, 1852-78. • BAB: 742, 100-138. • Engel, *Dutch Zoological Cabinets*, 1986: 306-7. • Jöcher, *Gelehrten-Lexikon*, 1750-51. • Kobus, *Biographisch Woordenboek*, 1886. • Poggendorff: 2, col. 1344. • WBI.



CATALOGUS, 1728

### 5046. — Dutch, 1728 [Sale catalog].

Catalogus | Van de uitmuntende en zeer vermaarde | Konst- en Natuur- | Kabinetten, | Bestaande in Goude, Zilveren en Kopere Antique en | Moderne Medailjes; ook veel Vreemde | Munten en Goude Cieranden; als mede Anti- | Gue Beelden, Bas-Relieven, Urne en andere | Antiquiteyten van Mamer, Koper, &c. benevens | eenige Oude Manuscripten. | Verder | Oost-Indische en Andere Konstwerken en Ra- | riteysen, als Agate Koppen, Edele Gesteentens, Heyligdom- | men, Chinese Tartarise en andere Afgoden,

Japanse Chi- | neese en Mogolse Miniaturen en geteekende Kaarten, fraije geschilderde Turkse en andere Portraits, een | Atlas van Blaeuw in 9 deelen, Mathematische In- | strumenten en zeer veel andere Curieusbeden. | Ook ongemeene schoone | Hoorns, Doubletschelpen, Coraal en Zeege- | wassen, Mineraalen, Versteende Zaken, Drogerijen, Insecten | droog en in Liqueur, en andere Naturalia meer. | Zeer keurlyk by een vergadert en naargelaten | door den Wel Ed: Heer en | Mr. Nicolaas Witsen, | In zyn Wel Ed. Leeven Burgermeester en Raad | der Stad Amsteldam, &c. &c. | Welke Verkogt zullen werden door de Makelaars Dirk van Hage; Vincent Posthumus, Pieter Kerkhoven en Jan Lempjes, op Dings- | dag, den 30 Maart 1729. en volgende dagen, 's morgens ten 9, en 's uamiddags ten 2 uren precys, tot Amsteldam, in de Kalver- | straat, het derde huis van de Gapersteeg, in de Spiegel Winkel Al- | waar deze Rariteyten drie dagen, te weeten Woensdag, | Donderdag en Vrydag den 24, 25 en 26 Maart voor de Verkoo- | ping te zien zullen zyn. | De Catalogen zyn by de voornoemde Makelaars se bekomen. | [ornament] | Te Amsteldam, | By de Erven van J. Lescaillie en D. Rank, op de Beursfluis. 8°:

VERY SCARCE. Witsen's large collection included minerals, but consisted primarily shells, art, antiques, and scientific instruments. It was sold at auction on 30 March 1728 and successive days. The catalog contains 425 lots (42 drawers) of natural history items and minerals.

REFERENCES: BL: [S.C.467.(1-4.)]. • Dance, *Shell Collecting*, 1986. • Engel, *Dutch Zoological Cabinets*, 1986: 306-7. • Lugt, *Repertoire des Catalogues*, 1938-53: no. 368. • Wilson, *History of Mineral Collecting*, 1994: 198 & 227.

**WITTICH, Johann.** (BORN: 1537; DIED: ) *German physician & religious writer.*

REFERENCES: ADB: 43, 635. • DBA: I 1383, 194-195; II 1419, 196. • Hirsch, *Biographisches Lexikon*, 1884-8. • Jöcher, *Gelehrten-Lexikon*, 1750-51. • Poggendorff: 2, col. 1345 ?? . • WBI.

**5047. — German, 1589** [First edition].

Bericht von den wunderbaren Bezoardischen Stein, so wieder allerley giffit krefftiglich dienen, und aus den Leiben der frembden Thiere genommen werden: So wol auch von andern Steinen, so aus verborgener eingepflantzter Natur unnd Krafft, unerhörte und ungeleubliche Wirckung vorrichten. Deszgleichen von den fürnembsten edlen Gesteinen, unbekandten hartzigen Dingen, und des neuen Armenischen Balsams, frembden wunder Kreutern, Holtz und Wurtzeln ... und wie solche inner und ausserhalb des Leibes zugebrauchen. Endlichen auch von der neuen Schleischen Terra Sigillate,

Axungia Solis genandt. Welche alle ... aus India Orientali und Occidentali, durch Gartiam ab Horto, und Nicolaum Monardum kündig gemacht worden seind, darbey auch anderer gelerter Medicorum Meinung mit eingesprengt, zuvor nie deutsch ausgangen. jtzo aber ... zusammen gebracht, durch Johannem Wittichium medicum. Leipzig [Hans Steinmans Erben] M.D.LXXXIX.

2 parts in one volume. [Part 1] 4°: [16], 146, [10] p.; [Part 2] 4°: [8], 147-181, [1] p. Each part has a separate title page and a handsome printer's device on the last leaf of the second part. COLOPHON: Gedruckt zu Leipzig, bey Hansz Steinmans Erben. Im Jahr M.D.LXXXIX. "Von dem ligno gwayaco, Wunderbawm, res noua genandt," with special t.-p.: 4ℓ., 147-181 p.

VERY SCARCE. Describes bezoardic stones, precious stones, medicinal uses and other wonders from the East and West Indies as well as other areas of the world. This work is based on the author's research of other sources rather than personal experience, and the work should probably be considered a series of translations.

Nicolás Monardes [ca. 1512-1588] and Garcia de Orta [fl. 16th c.].

REFERENCES: Arents: 34. • Duveen, *Bibliotheca Alchemica et Chemica*, 1965: p. 624 [part one only]. • Ferguson, *Bibliotheca Chemica*, 1906: 2, 554-5. • Gatterer, *Mineralogischen Literatur*, 1798-9: 2, 16. • Neu, *Chemical, Medical & Pharmaceutical Books*, 1965: no. 4396 [part one only]. • NUC: 670, 214-6 [NW 0398846]. • Sabin, *Dictionary*, 1868-1936: no. 104966. • Sinkankas, *Gemology Bibliography*, 1993: no. 7291 [not seen]. • VD16: W-3799.

**5048. 2nd edition, 1592:** Bericht von den wunderbaren bezoardischen Steinen, so wieder allerley Giffit krefftiglich dienen, und aus den Leiben der frembden Thier genommen werden: so wol auch von andern Steinen, so aus verborgener eingepflantzter Natur unnd Krafft, unerhörte und ungeleubliche Wirckung vorrichten. Deszgleichen von den fürnembsten edlen Gesteinen, unbekreutern, Holtz und Wurtzeln ... und wie solche inner und ausserhalb des Leibes zugebrauchen. Endliche auch von der neuen schlesischen Terra Sigillata, Axungia Solis genandt. Welche alle ... aus India Orientali und Occidentali, arte di conservare le sanitarum liber. De astrologia disputationum lib XII. Elegiae aliquot. In Palatonis convivium lib. III. Italice scripti. dem Epitomatis. Leipzig [Michael Lantzenberger] 1592.

4°: a-b<sup>4</sup> A-S<sup>4</sup> T<sup>5</sup>; 170ℓ.; [16], 146, [8] p.

VERY SCARCE. "Von dem Ligno guayaco" [etc.]: [43] p. at end, with two special title pages. A page-for-page reprint of the edition published in Leipzig in 1589 by the heirs of Hans Steinmann.

REFERENCES: Ferguson, *Bibliotheca Chemica*, 1906: 2, 555. • Hoover Collection: no. 894. • NUC: [no copy listed]. • Roller & Goodman, *Catalogue*, 1976: 2, ?? . • Sinkankas, *Gemology Bibliography*, 1993: no. 7292 [not seen].

**5049. 2nd edition, 1601:** [In black:] Bericht | [in red:] Von den wunderbaren | Bezoardischen Steinen/ sowieder allerley | [in black:] giffit krefftiglich dienen/ vnd aus den Leiben der fremb= | dem Thier genommen werden: So wol auch von andern | Steinen/ so aus verborgener eingepflantzter Natur | vnd krafft/ vnerhörte vnd vngleubliche wir= | ckung verichten. | [in red:] Deßgleichen von den fürnembsten Edlen | gesteinen/ vnbeandten hartzigen dingen/ vnd des new= | [in black:] en Armenischen Balsams/ frembden wunderfreutern/ Holtz | vnd Wurtzeln/ wo diese herkommen vnd machsen/ was ihre natur/ eigenschaft/ |

## WOLFART

krafft vnd wirckung/ vnd wie solche inner vnd ausserhalb des leibes zugebrau= | chen. Endlichen auch von der neuen Schliesischen Terra Sigillata, Axungia | Solis genandt. Welche alle mehrentheils den alten vnd neuen Scribenten | unbefandt/ vnd erst innerhalb 30. Jaren aus India Oriental vnd Occiden- | tali, durch Gartiam ab Horto, vnd Nicolaum Monardum kündig gemacht | worden seind/ dabey auch anderer gelehrter Medicorum meinung | mit eingesprengt/ zum or nie Deutsch | ausgegangen/ | [in red:] Jtzo aber den hohen Potentaten/ fleissigen naturkünd= | [in black:] digern/ vnd der gefundheit liebhabern/ zu besondern ehren vnd | besten/ mit fleis zusammen gebracht/ | Durch | [in red:] Iohannem VVittichium Medicum, | [in black:] Cum gratia & privilegio Sac. Cæs. Majest. | Typis Voegelinianis. | [rule] | [in red:] M. DCI. 4<sup>o</sup>: [12], 120, [8] p. Title in red and black.

VERY SCARCE. Author, etc. Wittich, Johann 1537-1596.

Monardes, Nicolßs ca. 1512-1588,

Orta, Garcia de 16th cent.,

REFERENCES: VD17: 3:624230Z.

**5050. 3rd edition, 1612:** [In black:] Bericht | [in red:] Von den wunderbaren | Bezoardischen Steinen/ so wieder allerley | [in black:] giftt trefflich dienen/ vnd aus den Leiben der frembden | Thier genommen werden: So wol auch von andern Stei= | nen/ so aus verborgener eingepflanzter Natur vnd | kraft/ vnerhörte vnd vngleubliche wir= | ckung verrichtten. | [in red:] Deßgleichen von den fürnembsten Edlen ge= | steinen/ vnbekandten hartzigen dingen/ vnd des neuen | [in black:] Armenischen Balsams/ frembden wunderfreutern/ Holtz vnd Wur= | zeln/ wo diese herkommen vnd machen/ was ihre natur/ eigenschafft/ krafft | vnd wirckung/ vnd wie solche inner vnd ausserhalb des leibes zugebrauche. Endlichen | auch vond der neuen Schiesischen Terra Sigillata, Axungia Solis genandt. Welche alle mehrentheils den alten vnd neuen Seribenten unkelandt/ vnd erst innherhalb | 30. Jahren aus India Orientali vnd Occidentali, durch Gratiam ab Horto, | vnd anderer geichrter Medicorum meinung mit einge= | sprengt/ zuvor nie Deutsch ausgegangen: | [in red:] Jtzo aber den hohen Potentaten/ fleissigen naturkündi= | [in black:] gern/ vnd der gefundheit liebhabern/ zu besondern ehren vnd | besten/ mit fleis zusammen gebracht/ | Durch | [in red:] M. Iohannem Wittichivm | [in black:] Medicum zu Arnstat. | Mit Römischer Kayserlicher Majest. auch Churfl. Sächssischen/ vnd den | [...2 lines of text...] | [in red:] Gedruckt bey Gotthard Vögelin.

4<sup>o</sup>: [14], 120, [8] p. Title in red and black. VERY SCARCE.

REFERENCES: VD17: 547:632884Q.

**WOLFART, Peter.** (BORN: Hanau, Germany, 11 July 1675; DIED: Cassel, Germany, 3 December 1726) *German physician, palaeontologist & geologist.*

Wolfart graduated from the University of Giessen in 1696 with his M.D. In 1703, he became professor of physics and anatomy at the Gymnasium of Hanau. He also established a medical practice in the city. In 1708, Wolfart was named a professor of physics and anatomy at the Collegium Carolinum. He was a widely respected physician being named Landphysicus for Hussia in 1716. He also held membership in the Leopoldinische Akademie.

REFERENCES: DBA: I 1391, 252-257. • Jöcher, *Gelehrten-Lexikon*, 1750-51. • Lambrecht & Quenstedt, *Catalogus*, 1938: 465. • Poggendorff: 2, col. 1358. • WBI.

### 5051. — Latin & German, 1719.

Historiæ Na- | turalis | Hassiæ Inferioris | Pars Prima | Qua | Potiora & Elegantiora hujus Fossilia, Figurata æque | ac certa quadam & regulari figura carentia, eaq; vel lapi- | dea vel metallica, ita in lucem protrahuntur publicam ne-

## HISTORIÆ NATURALIS HASSIÆ INFERIORIS PARS PRIMA

Potiora & Elegantiora hujus Fossilia, Figurata æque ac certa quadam & regulari figura carentia, eaq; vel lapidea vel metallica, ita in lucem protrahuntur publicam necessariusq; Iconismis illustrantur, ut cuilibet curioso in illis conchas genuinas Marinas, Plantas, Pices aliaq; naturæ admiranda cernere & per hæc magnum Creatorem laudare liceat.

i. e.

## Der Natur=Geschichte des Nieder=Fürstenthums Hessen Erster Theil

Worinnen dessen vornehmste und zierlichste/ sowol gebildete als ungebildete/ zu theils in Stein/ zu theils in Metallen bestehende Fossilia dergestalten an des Tages Licht hervor gebracht werden/ daß ein jeder Curiosus an denen ersten veritablen See= Muscheln/ Pflanzen/ Fische auch andere Seltenheiten der Natur täglich beschauen/ und dadurch den grossen Schöpffer preisen kan.

Dr. PETER WOLFART,  
Leib=Medico, der Freyung und Naturwissenschaft Profest. Publ. Land=Physico  
und der Hochlöbl. Käyserl. Carolinischen Gesellschaft Mit=Glied.  
GESCHEN/ Gedruckt bey Henrich Harnes/ Fürstl. Hof=Buchdrucker. Anno 1719.

HISTORIAE NATURALIS HASSIAE INFERIORIS, 1719

cessariisq; Iconismis illustrantur, ut cuilibet curioso in illis conchas genuinas Marinas, Plantas, Pices aliaq; naturæ | admiranda cernere & per hæc magnum Creato- | rem laudare liceat. | i. e. | Der Natur=Geschichte | Des | Nieder=Fürstenthums Hessen | Erster Theil | Worinnen dessen vornehmste und zierlichste/ sowol ge= | bildete als ungebildete/ zu theils in Stein/ zu theils in Metallen be= | stehende Fossilia dergestalten an des Tages Licht hervor gebracht werden/ daß ein jeder Curiosus an denen ersten veritablen See= | Muscheln/ Pflanzen/ Fische auch andere Seltenheiten der Natur | täglich beschauen/ und dadurch den grossen Schöpffer | preisen kan. | Von | Dr. Peter Wolfart, | Leib=Medico, der Artzney und Natur Wissenschaft Profess. Publ. Land=Physico | und der Hochlöbl. Käyserl. Carolinischen Gesellschaft Mit=Glied. | [ornate rule] | Cassel/ Gedruckt bey Henrich Harnes/ Fürstl. Hess. Hof=Buchdrucker. Anno 1719.

2<sup>o</sup>: [A]-N<sup>2</sup>; 13l.; [13], 14-52 p., frontispiece, 25 plates (partly folding). Text in Latin and German. Engraved head and tail piece and initial letter. PAGE SIZE: 390 x 245 mm.

CONTENTS: [1-2], Title page, verso blank.; [3], "In Frontem Libri"—being a Latin poem about Wolfart's collection, signed Joh. Adolph Hartman.; [4], "Erklärung des ersten Kupffer=Blats.;" [Frontispiece].; [5-8], Dedication

to Prince Carl I, signed P. Wolfart.; [9-12], "B.L.S."—in Latin.; [13], "Nach Standes Gebühr geehrter | Leser.;" 14-16, "I.N.J. | Praeliminarla. | De | Ratiociniis nonnullis in Praxi fundatis.;" 17-22, "Caput Primum | sistens | Hassiae Inferioris Lapides | Pretiosos.;" 22-25, "Caput Secundum | exponens | Lapides Hassiae Inferioris Vulgares | Seu Minus Pretiosos.;" 26-52, "Caput Tertium | Tractans Specialus."—description of figures located on the 25 plates. A Latin description is given first, followed by a description in German.

PLATES: The size of the engraved copper plate impression upon the paper is typically 310 x 200 mm. Plates are numbered I-XXV with no descriptions. Some of the them are signed at the bottom by the designer and the engraver. The subjects of the plates are mostly fossils of one type or another, although Tab. I shows several excellently drawn quartz crystal groupings. All of the plates are expertly drawn with clearly recognizable figures. Frontispiece. Shows Greek gods. Signed Ioh. Andr. Theolth inv. et del. and Ioh. Aug. Corvinus Sc. Aug. Vind. Tab. I. Quartz crystal groups (15 figs.). Signed Carolus Wilhl. Eberlinus del. and Ioh. Aug. Corvinus scit. Aug. Vind. Tab. II. Fossil in matrix (1 fig.). Signed Carolus Wilhl. Eberlinus del. and Ioh. Aug. Corvinus scit. Aug. Vind. Tab. III. Fossils [=Brachiopods] (6 figs.). Signed C.W.E. del. and I.A.C. sculp. Tab. IV. Fossil shells (22 figs.). Not signed. Tab. V. Fossil shells (6 figs.). Not signed. Tab. VI. Fossil ferns and shells (4 figs.). Not signed. Tab. VII. Fossil shells (10 figs.). Not signed. Tab. VIII. Fossil shells in matrix (6 figs.). Not signed. Tab. IX. Fossil shells in matrix (2 figs.). Not signed. Tab. X. Fossil shells (10 figs.). Signed I.N. Prizier del. and I.A.C. sc. Tab. XI. Fossil shells (9 figs.). Not signed. Tab. XII. Fossil fish and shells (6 figs.). Not signed. Tab. XIII. Fossil fish (1 fig.). Not signed. Tab. XIV. Fossil fish and shells (6 figs.). Signed I.N. Prizier del. and I.A.C. sc. Tab. XV. Fossil fish in matrix (1 fig.). Signed C.W. Eberlinus del and J.A. Corvinus sculpsit. Tab. XVI. Fossil fish in matrix (1 fig.). Signed C.W.E. del and J.A.C. scul. Tab. XVII. Fossil fish in matrix (1 fig.). Signed C.W. Eberlinus del and Joh. A. Corvinus sculp. Tab. XVIII. Fossil fish in matrix (2 figs.). Folding plate, measuring 390 x 290 mm. Signed C.W.E. del and J.A.C. scul. Tab. XIX. Fossil fish in matrix (1 fig.). Folding plate, measuring 390 x 530 mm. Signed C.W. Eberlinus del and I.A. Corvinus sc. Tab. XX. Fossil fish in matrix (2 figs.). Signed I.A. Corvinus sc. Tab. XXI. Fossil shark teeth (25 figs.). Not signed. Tab. XXII. Miscellaneous fossils (10 figs.). Signed I.A.C. sc. Tab. XXIII. Stones (9 figs.). Signed I.A.C. sc. Tab. XXIV. Fossil shells in matrix (7 figs.). Not signed. Tab. XXV. Fossil shells in matrix (5 figs.). Not signed.

VERY SCARCE. No more published. Only this first part of this work was published, and it deals mostly with paleontology, although there are two plates of minerals (I and XXIII). The specimens described were found by the author in the vicinity of Hessa in Germany.

The portrait of Wolfart called for by Cobres and Nissen is either extraordinarily rare or most likely a phantom. In numerous bookseller entries examined, as well as many library and bibliography citations, no other mention of a portrait was found.

REFERENCES: BL: [B.262.(2.)]. • Cobres, *Deliciae Cobresianae*, 1782: 2, p. 739 ["Nützlich, aber selten."]. • Hoover Collection: no. 895. • LKG: XIV 124a. • Nissen (ZBI): no. 4438 [calls for an additional plate bearing a portrait].

**5052. 2nd edition, c1726:** D. Petri Wolfart, | [...4 lines of titles and memberships...] | Historia Na- | turalis Lapidum, | imprimis figuratorum, | Hassiae Inferioris. | Qua | Potiora & elegantiora hujus Fossilia, figurata aequae ac certa | quadam & regulari figura carentia, eaque

vel lapidea vel metallica, | ita in lucem protrahuntur publicam necessariisque Iconismis illu- | strantur, ut cuilibet Curioso in illis conchas genuinas Marinas, | Plantas, Pisces aliaque naturae admiranda cerne- | re & per hæc magnum Creatorem | laudare liceat. | Natur=Geschichte | Des | Nieder=Kürstenthums Hessen, | Worinnen | Dessen fürnehmste und zierliche/ sowol gebildete als ungebil= | dete/ zu theils in Stein/ zu theils in Metallen bestehende Fossilia dergestalt | an des Tages Licht hervor gebracht werden/ daß ein jeder Curiosus an denen | ersten veritablen See=Muscheln/ Pflantzen/ Fischen auch andere Selten= | heiten der Natur täglich beschauen/ und dadurch den grossen | Schöpffer preisen kan. | Editio Secunda. | [rule] | Cassel/ | Verlegt und zu finden bey Johann Georg Damm / Hof- und Cantzley Buchbinder.

2<sup>o</sup>: [A]-N<sup>2</sup>; 13ℓ.; [13], 14-52 p., frontispiece, 25 plates (partly folding). Text in Latin and German. Engraved head and tail piece and initial letter. PAGE SIZE: 390 x 245 mm.

CONTENTS: Other than a newly set title page, the contents are identical to the 1719 edition.

VERY RARE. This "Editio Secunda" is apparently a reissue of the original text with a new and significantly changed title page, omitting the "Pars Prima," and calling Wolfart "olim," meaning the book must have been published after Wolfart's death in 1726. This perhaps indicates that these copies were acquired from Wolfart's estate in 1726 and reissued by the bookbinder Johann Georg Damm. The remainder of the book is identical to the 1719 first edition. [Entry by Andreas Mueller]

REFERENCES: BL: [no copy listed].

#### 5053. — Latin, 1707.

Vale Hanoviae et salve Cassellae dictum : Cujus occasione inventa quaedam hanoica, Utresque dilectissimis suis Popularibus communicare, se suaque Studia de meliori commendare, atque prioribus benevolam, sui memoriam relinquere voluit ... Francofurti ad Moenum, [1707.]

4<sup>o</sup>: 45 p., 3 plates. RARE.

REFERENCES: BL: [987.a.18.]. • LKG: XIV 267.

#### 5054. — Latin, 1711.

Amoenitatum Hassiae Inferioris Subterraneae Specimen Primum / ... Praeside D. P. Wolfart ... Eruditorum placidae censurae Publice exponet Johannes Henricus Herbst, Hasso-Cassell. ... Cassellis, Harmes, [1711].

4<sup>o</sup>: [2], 30 p.

VERY RARE. Dissertation—respondent, Joannes Henricus Herbst.

REFERENCES: BL: [B.403.(2.)].

**WOLFF, Christian, Freiherr von.** (BORN: Breslau, Germany, 24 January 1679; DIED: Halle, Germany, 9 April 1754) *German physician.*

Wolff went to school in Breslau at the Magdalenengymnasium, then in 1699, he spent three years at Jena studying mathematics and theology. Wolff's first interest was mathematics. Although he made no original contribution to the discipline, he was an important figure in the teaching of mathematics who was instrumental in introducing the new mathematics into German universities. After the early years teaching mathematics, he was primarily a philosopher who developed the most impressive coherent system of the 18th century. Natural philosophy was never his sole or primary enterprise in philosophy.



## WOLTERECK

REFERENCES: ADB: 44, 12-32. • Börner, *Vornehmsten Lebensumständen*, 1749-64. • DBA: I 1388, 85-319; 1431, 412; II 1425, 342-433. • Freiesleben, *Sächsische Mineralien-Verzeichnisse*, 1828: 133, no. 3 [Biographical notes from catalog title.]. • Hirsching, *Historisch-literarisches Handbuch*, 1794-1815. • Kluge, F.W., *Christian von Wolf, der Philosoph*. Breslau, 1831. [Best biographical reference.]. • Meusel, *Verstorbenen Teutschen Schriftsteller*, 1802-16. • Poggendorff: 2, cols. 1355-6. • WBI. • Wolff, C., *Christian Wolffs eigene Lebensbeschreibung*. Leipzig, 1841. [autobiography]. • Zedler, *Universal Lexicon*, 1732-50: 58, cols. 549-677.

### 5055. — German, 1714 [Auction catalog].

Museum Wolffianum, oder Verzeichniß von alerhand Insectis, Papilionibus, Ossibus und Partibus von mancherley Thieren, Mineralibus, Petrefactis, Ipretieusen und configurirten Steinen, &c. welche Herr Christian Wolff mit sonderbaren Fleiß vormahls colligiret, und sollen verkauffet werden. Leipzig, 1714.

8°: 110 p. RARE.

REFERENCES: Freiesleben, *Sächsische Mineralien-Verzeichnisse*, 1828: no. 3. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 259-60.

### WOLFFRAM, ( ).

#### 5056. — English, 1910 [Collection catalog].

Descriptive Catalogue | of | Mr. Wolfram's | Collection of Minerals | The Blackheath Press: | Charles North, Blackheath, London, S.E., England | [rule] | 1910.

4°: [4], 1-64 p. The title is printed on the paper wraps. PAGE SIZE: 355 x 220 mm.

CONTENTS: [2 pgs], Title page, verso blank (=front-cover); [1 pg], "Contents."; [1 pg], Blank.; 1-64, Text of catalog.

VERY RARE. The catalogs divides the described specimens by element, into a structure resembling Dana's classification scheme.

REFERENCES: BL.

**WOLNY, András Ráfael.** (BORN: Selmecbánya, Hungary, 1759; DIED: Nagymuzsaj, Hungary, 17 October 1827) *Hungarian mineralogist & botanist.*

Wolny András Ráfael (Selmecbánya, 1759 Nagymuzsaj, 1827, okt. 17.): botanikus, mineralógus, tanár. Tíz évig piarista tanár volt, majd kilépett a rendből és előbb nevelőként működött, azután 1788-tól 1815-ig a karlócai gimn. tanára, ill. ig. tanára, végül a Károlyi grófok nagymuzsalyi timsógybányának vezetője. A Helytartótanács felhívására szbmos általa gyűjtött növényt küldött az egy. botanikus kertjének. Többmögatta Kítaibei Pál munkáját is. O gyűjtött eloszór szerbtövist Mo-on. Növénytani jegyzetei és gyűjteményei az MNM-ben vannak. F. m. Historia naturalis elementa (Budae, 1805); Prof. Wolny notata botanica ad floram Hungariae et Sirmii spectantia (kéziratban). Irod. Borbás Vince: Tudós W. A. életének rövid leírása Beregszászi Nagy Pál nyomán (Mathem. Term. tud. Közl. 1893).

REFERENCES: DBA: I 1393, 86. • Magyar Életrajzi Lexikon: 2, 1054 [substantial biography?]. • WBI. • Wurzbach, *Biographisches Lexikon Österreich*, 1856-91.

### 5057. — German, 1805.

Ein Lehrbuch der Mineralogie. Ofen, 1805.

8°:

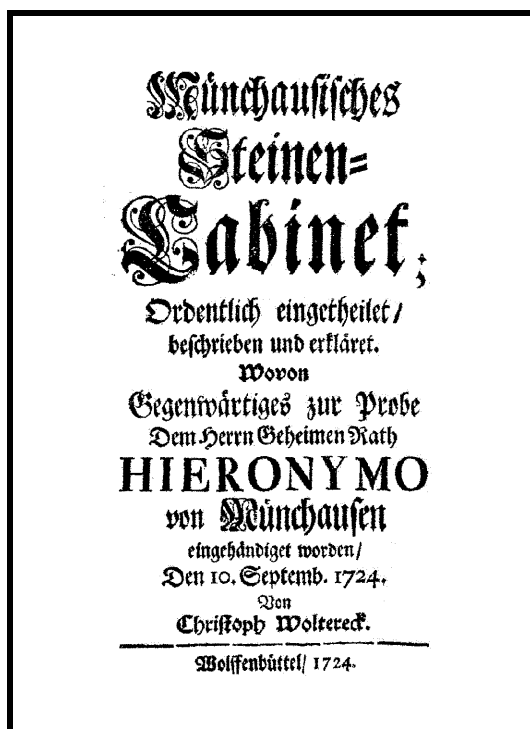
VERY RARE. Probably printed as a section of Wolny's *Historiae Naturalis Elementa* (Budae, 1805), no copy of the *Lehrbuch* has been uncovered to complete its description.

REFERENCES: LKG: XII 168. • Papp, *Magyar Topografikus*, 2002: p. 138.

**WOLTERECK, Christoph.** (BORN: Glückstadt, Schleswig-Holstein, Germany, 1 July 1686; DIED: Wolfenbüttel, Saxony, Germany, 11 June 1735) *German historian.*

From 1706, Woltereck studied theology, jurisprudence, history and mathematics in Leipzig. In 1710 he left the University without a degree, going to Hamburg and Rendsburg and practiced around 1716 as a lawyer in Goslar. In 1717 he was entrusted with the order of archives of the main church in Wolfenbüttel, becoming in 1720 the secretary to the Schweiger prime minister and subsequently other jobs in the government. In 1708, he wrote the *Ausführlichen Bericht von allerhand neuen Büchern*.

REFERENCES: ADB: 44, 172. • DBA: I 1393, 249-252; 1124, 338. • DBE: 10, 585-6. • Jöcher, *Gelehrten-Lexikon*, 1750-51. • WBI.



MÜNCHAUSISCHES STEINEN-CABINET, 1724

### 5058. — German, 1724 [Collection catalog].

Münchausisches | Steinen= | Cabinet; | Ordentlich eingetheilt/ | beschrieben und erklärt. | Wovon | Gegenwärtiges zur Probe | Dem Herrn Geheimen Rath | Hieronymo | von Münchhausen | eingehändigt worden/ | Den 10. Septemb. 1724. | Von | Christoph Woltereck. | [rule] | Wolfenbüttel/ 1724.

8°: A-B<sup>8</sup>; 16 $\ell$ .; [1]-32 p.

CONTENTS: [1], Title page.; [2], "Inhalt.;" [3]-32, Text.

VERY RARE. Collection catalog describing the stones, minerals and precious stones of the Royal mineral cabinet of Münchhausen as it existed on the 10 September 1724.

REFERENCES: BL: [728.b.18.]. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 260. • LKG: XV 7.

**WOLTERSdorFF, Johann Lucas.** (BORN: Friedrichsfelde, Germany, 25 June 1721; DIED: Berlin, Germany, 22/23 December 1772) *German theologian & mineralogist.*

Woltersdorff was a preacher at several churches in Berlin. As a hobby he collected a large mineral collection.

REFERENCES: ADB: 44, 184. • DBA: I 1393, 302-303; II 1429, 354. • Lambrecht & Quenstedt, *Catalogus*, 1938: 465. • Meusel, *Verstorbenen Deutschen Schriftsteller*, 1802-16. • Poggendorff: 2, col. 1364. • WBI. • Woltersdorff, J.L., *Ehrendächtniss von Silberschlag*. Berlin, 1772. [Contains some autobiographical information on Woltersdorff].



SYSTEM MINERALE, 1748

**5059. — Latin & German, 1748** [First edition].

Systema Minerale | In Quo | Regni Mineralis Producta Omnia | Systematice | Per | Classes, Ordines, Generea Et Species | Proponuntur. | [rule] | Mineral=System | worin | alle zum Mineral=Reich gehörige Körper | in ordentlichen Zusammenhange | nach ihren | lassen, Ordnunguen, Geschlechtern und Arten | vorgetragen werden | von | Johann Lucas Woltersdorff. | [rule] | Berlin, gedruckt bey Christian Ludewig Kunst. 1748.

Oblong 4°: A-F<sup>4</sup> G<sup>2</sup>; 26 $\ell$ .; [1]-52 p. Text in two and three columns to a page, and in Latin and German. PAGE SIZE: 220 x 280 mm.

CONTENTS: [1-2], Title page, verso blank.; [3], Dedication to "Academiae Regiae Borussicae.;" [4], Blank.; 5-8, "Præfatio | Ad Lectorem Benevolum." and "Vorrede | an den geneigten Leser."—signed Johann Lucas Woltersdorff, 4 May 1748 (=forward in Latin and German in double columns).; 9-52, Text.

VERY RARE. In attempting to organize his mineral collection in 1740, Woltersdorff found difficulties in the pervailing systems of Gesner, Woodward, and

Scheuchzer. He there after developed his own method which is an early attempt to classify species by chemical composition. The text present this classification in a series of tables in Latin and German. The major divisions are earths, stones, salts, hard earths, semi-metals, metals and petrifications.

REFERENCES: Beekman, *Systematische Mineralogie*, 1906: pp. 22-4. • BL: [457.b.7.(1.)]. • Cobres, *Deliciae Cobresianæ*, 1782: 2, 685-6. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 26-7. • Kobell, *Geschichte der Mineralogie*, 1864: 62-4. • Lambrecht & Quenstedt, *Catalogus*, 1938: p. 36. • LKG: XII 30. • Wallerius, *Brevis Introductio*, 1779: 82.

**5060. 2nd edition, 1755:** Systema Minerale | In Quo | Regni Mineralis Producta Omnia | Systematice | Per | Classes, Ordines, Genera Et Species | Proponuntur. | Mineral=System | worin | alle zum Mineral=Reich gehörige Körper | in ordentlichem Zusammenhange | nach ihren | Classen, Ordnungen, Geschlechtern und Arten | vorgetragen werden | von | Johann Lucas Woltersdorff. | Neue, von dem Verfasser selbst vermehrte und verbesserte Auflage. | [ornate rule] | Berlin, 1755. | Im Verlag der Buchhandlung der Real=Schule.

Oblong 4°: A-G<sup>4</sup> H<sup>2</sup>; 30 $\ell$ .; [1]-60 p. Text in two and three columns to a page, and in Latin and German.

CONTENTS: [1-2], Title page, verso blank.; [2]-[3], "Præfatio | Ad Lectorem Benevolum." and "Vorrede | an den geneigten Leser."—signed Johann Lucas Woltersdorff, 4 May 1748.; [4]-8, "Præfatio Nova." and "Neue Vorede.;" [9]-60, Text.

RARE. The text is in double column of Latin and German.

REFERENCES: BL: [457.b.7.(2.)]. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 26-7. • Schröter's *Journal für die Liebhaber*: 1, 141-2.

**5061. 3rd edition, 1755:** Systema Minerale | In Quo | Regni Mineralis Producta Omnia | Systematice | Per | Classes, Ordines, Genera Et Species | Proponuntur. | [rule] | Mineral=System | worin | alle zum Mineral=Reich gehörige Körper | in ordentlichem Zusammenhange | nach ihren | Classen/ Ordnungen/ Geschlechtern und Arten | vorgetragen werden | von | Johann Lucas Woltersdorff. | Anjetzo mit neuen Observationen auch einer Nachricht | von der sonst geheimen Kunst das Holtz zu versteinen | herausgegeben | von | Eberhard Friedrich Stadel, Apotheker in Ulm. | [ornate rule] | Ulm, auf Kosten des Verfassers | und in Commission | bey Daniel Bartholomäi und Sohn, 1755.

Oblong 4°:  $\pi^1$  A-F<sup>4</sup> G<sup>2</sup>; 27 $\ell$ .; [1]-54 p. Text in two and three columns to a page, and in Latin and German. PAGE SIZE: 205x 250 mm.

CONTENTS: [1-2], Title page, verso blank.; [3]-4, "Neue Vorrede."—signed Eberhard Friedrich Stadel, 4 February 1755.; 5-8, Forward, written in both Latin and German, signed Johannes Lucas Woltersdorff.; 9-44, Text.; 45-52, "Observations.;" 53-54, "Neue Observations."

RARE. Edited by Eberhard Friedrich Stadel. The volume begins (pp. 3-4) with a new forward (in German only) by Stadel which discusses the works merits. This is followed (pp. 5-8) by a reprint of the author's forward (Latin & German) that describes reasons why minerals should be classified according to their internal composition as opposed to external properties. Pages 9-44 discuss the system in a series of tables with the Latin phrasing above the German. Concluding the work (pp. 45-52 and pp. 53-54) are two appendixes. These discuss various minerals and properties of substances belonging to the mineral kingdom.

REFERENCES: BL: [871.h.78.]. • Cobres, *Deliciae Cobresianæ*, 1782: 2, 686. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 26-7. • LKG: XII 30. • Schröter's *Journal für die Liebhaber*: 1, 141. • Wallerius, *Brevis Introductio*, 1779: 82.

## WOODWARD

### 5062. — German, 1772 [Sale catalog].

Vollständiger Catalogus des Mineralienkabinetts, welches der selige Herrn Johann Lucas Woltersdorff hinterlassen hat. Berlin, Bosse, [1772].

8°: 110 p.

VERY RARE. Perhaps this is the title of the auction sale catalog of Woltersdorff's collection.

REFERENCES: *Berlinische Sammlungen*: 5, 107. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 265. • LKG: XV 30.

### WOODWARD, Horace Bolingbroke. (BORN: 20 August 1848; DIED: 6 February 1914) *English geologist*.

Secretary of Geological Society, 1863-7. Associated with the Geological Survey of Great Britain, 1867-1908. Authored several important geological works.

REFERENCES: BBA: I 1195, 12-15; II 1853, 197. • Cleevly, *World Palaeontological Collections*, 1983: 317. • *Encyclopaedia Britannica*, 11th edition. • *Geological Magazine*: 1 (Dec. 6, 1914), 142-4. • Lambrecht & Quenstedt, *Catalogus*, 1938: 467. • *Nature*: 92 (1914), 692. • Poggendorff: 3, 1464-5 & 4, 1667-8. • Sarjeant, *Geologists*, 1980: 3, 2459. • WBI.

### 5063. — English, 1907.

The History | of the | Geological Society | of London | By | Horace B. Woodward, F.R.S. | London | Geological Society | Burlington House | 1907.

8°:  $\pi^8$  a<sup>2</sup> B-Y<sup>8</sup>; 178ℓ.; [i]-xix, [1], [1]-336 p., colored frontispiece, 27 plates, index. Tissue guards are present for each plate. PAGE SIZE: 218 x 144 mm.

CONTENTS: [i-ii], Half title page, "The History | of the | Geological Society of London," verso blank.; [iii-iv], Title page, verso blank.; [v]-x, "Preface."—signed Horace B. Woodward, 14 June 1907.; [xi]-xvi, "Contents."; [xvii]-xix, "Illustrations."; [1 pg], 5 lines quoted from Lyell's 'Principles of Geology.'; [1]-262, Text.; [263]-323, "Appendix."; [324], Blank.; [325]-336, "Index."

PLATES: In the upper left hand corner of each plate is the description, "History of the Geological Society." In the upper right hand corner is the plate number. The subject of each plate is described at the bottom of the illustration. The plate descriptions listed below are not transcriptions of the wording on the plates, but rather an indication of the plates subject.

Frontispiece (colored). The Rev. William Buckland, age 59, after a painting by R. Ansdell, R.A., done about 1843. Plate I (facing p. 10). Dr. William Babington. Plate II (facing p. 12). George Bellas Greenough. Plate III (facing p. 14). William Phillips. Plate IV (facing p. 36). Dr. John McCulloch, after a portrait by R.B. Faulkner. Plate V (facing p. 40). The Rev. William Daniel Conybeare, age 65. Plate VI (facing p. 62). The Rev. Adam Sedgwick, age 82, after a drawing by Lowes Dickinson, 1867. Plate VII (facing p. 78). Sir Roderick Impey Murchison, after a painting by W.H. Pickersgill. Plate VIII (facing p. 80). Dr. William Henry Fitton, age 80, from a photograph taken in 1860. Plate IX (facing p. 82). George Poulett Scrope.

Plate X (facing p. 86). Sir Charles Lyell. Plate XI (facing p. 90). The Wollaston Medal. Plate XII (facing p. 92). William Smith, age 69, after a painting by M. Fourreau. Plate XIII (facing p. 106). Sir Henry Thomas De La Beche. Plate XIV (facing p. 108). Robert A.C. Godwin-Austen. Plate XV (facing p. 112). Professor John Phillips, age 60, from a photograph taken in 1860. Plate XVI (facing p. 122). Dr. Gideon Algernon Mantell, after a painting by J.J. Masquerier. Plate XVII (facing p. 128). Dr. Hugh Falconer. Plate XVIII (facing p. 148). Professor Edward Forbes. Plate XIX (facing p. 162). Sir Joseph Prestwich.

Plate XX (facing p. 228). Professor Joseph Beete Jukes. Plate XXI (facing p. 234). Sir Andrew Crombie Ramsay. Plate XXII (facing p. 247). The Murchison Medal. Plate XXIII (facing p. 250). The Lyell Medal. Plate XXIV (facing p. 252). The Bigsby Medal. Plate XXV (facing p. 254). The Prestwich Medal. Plate XXVI (facing p. 256). Dr. William Thomas Blanford. Plate XXVII (facing p. 262). Sir Archibald Geikie.

VERY SCARCE. A detailed history of the Geological Society of London, which was an outgrowth of the earlier British Mineralogical Society. Everything one might want to know about the first century of the London Geological Society is contained in this volume. Included are biographies of the founding members (mostly mineralogists) together with reproductions of their portraits which account for most of the plates. Included are biographies of the mineralogists, WILLIAM BABINGTON, THOMAS ALLAN, COUNT JACQUES-LOUIS BOURNON, ARTHUR AIKIN and WILLIAM PHILLIPS.

The text is divided into sixteen chapters and an appendix. The chapter titles are: I. Introductory. II. Origin, foundation and early history of the geological society. III. The old masters. The publication of "Transactions." IV. Geological maps. New series of "Transactions." V. The charter. Somerset House. The "Proceedings." VI. Early geological books. The Wollaston Medal and the father of English geology. Sedgwick and Murchison on Cambrian and Silurian. VII. The Geological Survey. The Devonian System. VIII. Catalogues of fossils. Early discoveries of vertebrata. IX. The glacial period. The Cambro-Silurian controversy. X. The "Quarterly Journal." XI. The rise of petrology. Close of the Cambro-Silurian controversy. XII. The southern uplands and the northwest highlands of Scotland. XIII. Antiquity of man. Palaeontological nomenclature. XIV. Eozoon Canadense and the Laurentian rocks. The older rocks of Pembrokeshire. Petrology. XV. The Devonian question. Denudation. Origin of scenery. Glacial geology. XVI. Attendance of ladies. The museum and library. Medals and funds. Geological literature. The appendix gives lists of members, presidents, secretaries, etc.

Facsimile reprint, 1978: The History | Of The | Geological Society | Of London | Horace B. Woodward | [ornament] | Arno Press | A New York Times Company | New York/1978. 8°: [4], [i]-xix, [1], [1]-336, [2] p., frontispiece, 27 plates, index.

REFERENCES: BL. • NUC.

### 5064. — English, 1911.

History Of | Geology | By | Horace B. Woodward, | F.R.S., F.G.S. | [...5 lines of titles and memberships...] | [Issued For The Rationalist Press Association, Limited] | London: | Watts & Co., | 17 Johnson's Court, Fleet Street, E.C. | 1911.

8°: [A]-K<sup>8</sup> (A<sup>8</sup> mislabelled "B2"); 80ℓ.; [i]-vi, 1-154 p., biblio., index, 14 illustrations (portraits). PAGE SIZE: 182 x 120 mm.

CONTENTS: [i], Blank.; [ii], Frontispiece.; [iii-iv], Title page, verso Blank.; v, "Contents."; vi, "List Of Illustrations."; 1-148, Text.; 149-150, "Bibliography."; 151-154, "Index."—at end, "Printed By Watts And Co., 17

Johnson's Court, Fleet Street, London, E.C."

PLATES: The unnumbered illustrations usually show full page portraits of famous geologists. For the most part, these are photographic reproductions of earlier paintings and Deurragotypes.

Frontispiece (p. ii). Sir Charles Lyell (age 52), after a portrait by T.H. Maguire. Page 32, William Smith (age 69), after an engraving by T.A. Dean. Page 48, William Buckland (age 62), after a painting by T.C. Thomson. Page 51, William Maclure (age about 55), after an engraving by D.C. Hinman. Page 53, James de Carle Sowerby (age about 80). Page 59, William Hyde Wollaston (age about 56), after a painting by J. Jackson, R.A. Page 61, Leopold von Buch (age about 40). Page 86, James Dwight Dana (age about 70). Page 100, Adam Sedgwick (age about 50). Page 103, Sir Roderick Impey Muchison (age 68). Page 110, Louis Agassiz (age about 54). Page 123, Alcide d'Orbigny (age 37). Page 125, James Hall (age 80). Page 127, Etheldred Benett (age 60), after a silhouette, 1837.

VERY SCARCE. A quaint, short history of geology, with good portrait illustrations. The book is clear and interesting in all its chapters. Stratigraphy assumes an important role, since it is based upon a succession of organisms inhabiting the earth, and this is an aspect of geology that is readily understood. Other disciplines can only be touched upon due to the small format of the work. Mineralogy and crystallography are only briefly covered.

The text is divided into 8 chapters. I. Early notions about the history of the earth. II. The founders of geology as a science. III. Geology in the early part of the nineteenth century. IV. The principles of geology. V. Local and official geological surveys and economic geology. VI. The elucidation of the older geological systems, with remarks on the history of the new systems. VII. Palæontology and the succession of life. VIII. The Archæan and metamorphic rocks. Great earth movements. Petrology. Concluding remarks.

Facsimile reprint, 1978: A History Of The Sciences | [rule] | History Of | Geology | By | Horace B. Woodward, | [...5 lines of titles and memberships...] | With Illustrations | G.P. Putnam's Sons | New York And London | The Knickerbocker Press | 1911. New York, AMS Press, 1978. 8°: [2], [i]-viii, [1]-204 p., biblio., index, 14 illustrations (portraits).

REFERENCES: *Nature*: 87 (August 31, 1911), 277.

**5065. — English, 1911** [American issue].

A History Of The Sciences | [rule] | History Of | Geology | By | Horace B. Woodward, | [...5 lines of titles and memberships...] | With Illustrations | G.P. Putnam's Sons | New York And London | The Knickerbocker Press | 1911.

8°:  $\pi^5$  1-128  $\chi^6$ ; 107 $\ell$ .; [2], [i]-viii, [1]-204 p., biblio., index, 14 illustrations (portraits). PAGE SIZE: 174 x 120 mm.

CONTENTS: [1 pg], Half title page, "History Of Geology.": [1 pg], Frontispiece (portrait of Lyell.); [i-ii], Title page, verso blank.; iii, "Publisher's Note.": [iv], Blank.; v-vi, "Contents.": vii-viii, "Illustrations.": [1]-188, Text.; 189-192, "Bibliography.": 193-204, "Index."

PLATES: Identical to the London edition of the same year.

VERY SCARCE. The text has been reset in a larger font thus increasing the page count and the placement of the illustrations in this issue.

**WOODWARD, John.** (BORN: Derbyshire, England, 1 May 1665; DIED: Gresham College, England, 25 April 1728) *English physician, geologist & mineralogist.*

Woodward was apprenticed to a linen draper in 1680. However, Dr. Peter Barwick discovered him, and brought him into his home for four years (1684-8). There he was educated in medicine and much else. Woodward thereafter pursued a medical practice in London. He was awarded by special dispensation of the Archbishop of Canterbury, 1695, what was called a Lambeth degree, and in 1697, Cambridge conferred on him an M.D. He lectured on bile to the Royal College of Physicians, and was professor of physic at Gresham College from 1692 to 1728. He is said to have been recognized as an authority on comparative anatomy. Woodward's interests ranged very widely over natural history and antiquities, but he is generally considered the first major figure in English geology. He considered his theory of the earth to be a defense of Scripture. At his death he received the final sacrament of the church and professed his Anglican faith, and he was buried in Westminster Abbey. Woodward carried out systematic experimentation on plant nutrition in the early 90s, demonstrating for the first time that water taken in by the roots is exhaled (or transpired as the word is now). Woodward was elected a Fellow of the Royal Society in 1693, and to the Royal College of Physicians in 1703.

REFERENCES: BBA: I 1195, 22-83. • Cleavelly, *World Palæontological Collections*, 1983: 317. • DNB: 62, 894-6. • DSB: 14, 500-3 [by V.A. Eyles]. • *Encyclopaedia Britannica*, 11th edition. • Eyles, V.A., "John Woodward, F.R.S. (1665-1728), physician and geologist," *Nature, London*, 206 (1965), no. 4987, 868-70. • Eyles, V.A., "John Woodward, F.R.S., F.R.C.P., M.D. (1665-1728): a bio-bibliographical account of his life and work," *Journal for the Society of the Bibliography of Natural History*, 5 (1971), no. 6, 399-427, portrait, illus., biblio. • Lambrecht & Quenstedt, *Catalogus*, 1938: 467. • Levine, J.M., *Dr. Woodward's Shield*. Berkeley, 1977. • Munk, W., *The roll of the Royal College of Physicians of London*. 2nd edition. London, 1878. 3 vols: 2, 6-10. • Poggendorff: 2, cols. 1366-7. • Sarjeant, *Geologists*, 1980: 3, 2459-60, Suppl. 1 (1986), 2, 897 & Suppl. 2 (1996), 2, 1213. • Tjaden, W.J., "John Woodward, Hans Sloane, and Johann Gaspar Scheuchzer: some further information," *Journal for the Society of the Bibliography of Natural History*, 8 (1971), no. 1, 74-77. • Ward, J., *The lives of the professors of Gresham College*. London, 1740: 283-301. • WBI. • *World Who's Who in Science*: 1823.

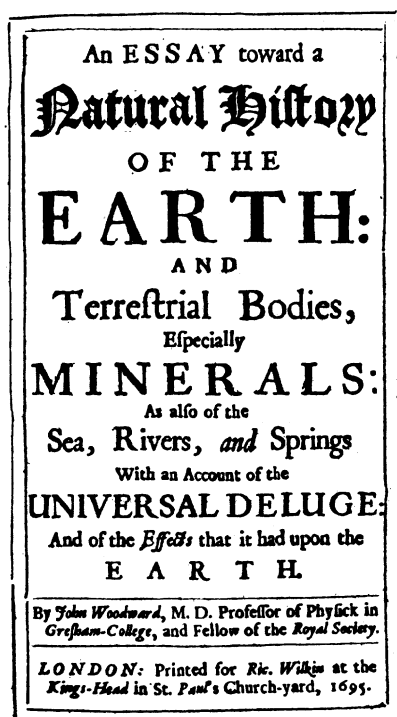
### An Essay

**5066. — English, 1695** [First edition].

[Contained within a double rule box:] An Essay toward a | Natural History | Of The | Earth: | And | Terrestrial Bodies, | Especially | Minerals: | As also of the | Sea, Rivers, and Springs. | With an Account of the | Universal Deluge: | And of the Effects that it had upon the | Earth. | [rule] | By John Woodeard, M.D. Professor of Physick in | Gresham-College, and Fellow of the Royal Society. | [rule] | London: Printed for Ric. Wilkin at the | Kings-Head in St. Paul's Church-yard, 1695.

8°: A-S<sup>8</sup> T<sup>4</sup> (\$4 signed); 148 $\ell$ .; [16], 1-277, [3] p. PAGE SIZE: 212 x 130 mm.

CONTENTS: A1r, Blank.; A1v, Imprimatur, signed John Hoskyns, 3 January 1695.; A2r, Title page.; A2v, Blank.; A3r-A3v, Dedication to Sir Robert Southwell.; A4r-A7v, "Preface.": A8r-A8v, "The Contents" [errata on A8v].; B1r-T3r (1-277), Text.; T3v-T4r, "Books Printed



AN ESSAY, 1695

for Richard Wilkin at the King's-Head in S. Paul's Church-Yard."; T4v, Blank.

SCARCE. On excursions, which started early in his medical career, he studied both plants and minerals, and especially fossils. *Essay Toward a Natural History of the Earth*, 1695, which established his reputation, advanced a theory to explain stratification (and the fossils embedded in strata) by the deposit of debris out of the deluge. He insisted that fossils were the remains of once living animals and plants, and he related fossils to specific rock formations. He formed a large collection of fossils and minerals, many of which were sent to him from abroad. He attempted to classify them—*Naturalis historia telluris*, 1714; *Fossils of All Kinds Digested into a Method*, 1728, which is primarily a classification of minerals (included in the generic term "fossil"); *An Attempt Towards a Natural History of the Fossils of England*, posthumous, 1729, dealing with minerals as well. He also wrote an unpublished treatise on the natural history of ores and metals.

REFERENCES: Jahn, *Bibliographical History of John Woodward*, 1972: 190-1. • LKG: XIII 26.

**5067. 2nd edition, 1702:** [Contained within a double rule box:] An Essay toward a | Natural History | Of The | Earth: | And | Terrestrial Bodies, | Especially | Minerals: | As also of the | Sea, Rivers, and Springs. | With an Account of the | Universal Deluge: | And of the Effects that it had upon the | Earth. | [rule] | By John Woodward, M.D. Professor of Physick in | Gresham College: and Fellow of the Royal Society. | [rule] | The Second Edition. | [rule] | London, | Printed by T.W. for Richard Wilkin at the | Kings-Head in St. Paul's Church-Yard, 1702

8°: A-S<sup>8</sup> T<sup>4</sup> (\$4 signed; A3 sometimes canceled);

147ℓ.; [14], 1-277, [3] p. PAGE SIZE: 230 x 142 mm. SCARCE.

CONTENTS: A1r, Blank.; A1v, Imprimatur signed John Hoskyns.; A2r, Title page.; A2v, Blank.; A3r-A3v, Dedication to Sir Robert Southwell.; A4r-A7v, "Preface."; A8r-A8v, "The Contents" [errata on A8v]; B1r-T3r (1-277), Text.; T3v-T4v, "Books Printed for Richard Wilkin at the King's-Head in S. Paul's Church-Yard."

REFERENCES: Jahn, *Bibliographical History of John Woodward*, 1972: 191-3.

**5068. 3rd edition, 1723:** [Contained within a double rule box:] An Essay towards a | Natural History | Of The | Earth, | And | Terrestrial Bodies, | Especially | Minerals: | As also of the | Sea, Rivers, and Springs. | With an Account of the | Universal Deluge: | And of the Effects that it had upon the | Earth. | [rule] | By John Woodward, M.D. Professor of | Physick in Gresham-College: Fellow of the Col- | lege of Physicians, and of the Royal-Society. | [rule] | The Third Edition. | [rule] | London: | Printed for A. Bettesworth and W. Taylor | in Pater-noster Row, R. Gosling at the Mid- | dle-Temple-Gate in Fleet-street, and J. Clarke | under the Royal-Exchange in Cornhill, 1723.

8°: A-U<sup>8</sup> (\$4 signed); 160ℓ.; [12], 1-304, [4] p. PAGE SIZE: 228 x 134 mm. VERY SCARCE.

CONTENTS: A1r, Title page.; A1v, Blank.; A2r-A5v, "The Preface."; A6r-A6v, "The Contents." (errata on A6v); 1-304 (A7r-U6v), Text.; U7r, "Books wrote by the Author."; U7v, Blank.; U8, Blank.

REFERENCES: Jahn, *Bibliographical History of John Woodward*, 1972: p. 194-6.

**5069. Latin transl., 1704:** [Contained within a double rule box:] Specimen | Geographiæ Physicæ | Quo agitur | De | Terra, | Et | Corporibus Terrestribus | Speciatim | Mineralibus: | Nec non | Mari, Fluminibus, & Fontibus. | Accedit | Diluvii Universalis | Effectuumque ejus in Terra | Descriptio. | [rule] | Authore | Joh. Woodwardo, M.D. | [...3 lines of titles and memberships...] | [rule] | Tiguri, | Typis Davidis Gessneri, 1704.

8°: )<sup>8</sup> A-Q<sup>8</sup> (\$5 signed; leaves )<sup>(3)</sup>(5 are missigned )<sup>(2)</sup>(4); 136ℓ.; [16], 1-231, [25] p. Pages 182 and 200 are misnumbered 82 and 00. PAGE SIZE: 188 x 114 mm.

CONTENTS: )<sup>(1)</sup>, Blank.; )<sup>(2)</sup>r, Title page.; )<sup>(2)</sup>v, Blank.; )<sup>(3)</sup>r-(4v, Dedication of the translator, J.J. Scheuchzer to John Woodward.; )<sup>(5)</sup>r-(7v, "Præfatio."; )<sup>(8)</sup>r-(8v, "Contenta in Synopsi exhibita." [=contents]; 1-231 (A1r-P4r), Text.; P4v-P5r, "Loca S. Scripturæ citata & explicata."; P5v-Q6v, "Index."; Q7-Q8, Blanks.

VERY SCARCE. Translated and edited by JOHANN JACOB SCHEUCHZER.

REFERENCES: Jahn, *Bibliographical History of John Woodward*, 1972: p. 193-4. • LKG: XIII 28b.

**5070. French transl., 1735:** *Geographie | Physique, | Ou Essay Sur | L'Histoire Naturelle | De La Terre, | Traduit de l'Anglois, de Monsieur Wodward, par | M. Noguez, Docteur en Medecine: | Avec la Réponse aux Observations de M. le Docteur | Camerarius; plusieurs Lettres écrites sur la même | matiere; & la Distribution méthodique des Fossiles, tra- | duits de l'Anglois, du même M. Wodward, par le | R.P. Nicéron, Barnabite. | [ornament] | A Paris, | Chez Briasson, Libraire, rue Saint-Jacques, | à la Science. | [rule] | M. DCC. XXV. | Avec Privilege Dv Roy.*

4°: a<sup>4</sup> \*\*3 A-V<sup>4</sup> X<sup>4</sup> (+/-X4) Y-Z<sup>4</sup> Aa-Zz<sup>4</sup> Aaa-Ccc<sup>4</sup> (\$2 signed); 203ℓ.; [I]-XIV, [1]-389, [3] p., frontispiece ("Coupe de la terre dans son diametre"). PAGE SIZE: 290 x 218 mm.

CONTENTS: [I-II] (a1r-a1v), Title page, verso blank.; [III]-VIII (a2r-a4v), "Preface De L'Auteur."; IX-XIV (\*\*1r-\*\*3v), "Table."; 1-166 (A1r-X3v), "Essay Sur L'Histoire Naturelle De La Terre."; [167/-X4r], Sectional title page, "Réponse | Aux Observations | Du Docteur Camerarius, | Concernant | L'Essay | Sur | L'Histoire Naturelle | De La Terre, | Avec une Preface de Benjamin Holloway, Traducteur | Anglois de cette Defense."; [168], Blank.; 169-240 (Y1r-Gg4v), Preface Du Traducteur Anglois.; 241-242 (Hh1r-Hh1v),

"Preface De L'Auteur."; 243-307 (hh2r-Qq2r, "Réponse Aux Observations Du Docteur Camerarius."; [308], Blank.; [309/=Qq3r], Sectional title page, "Des Fossiles | De Toute Espece, | Rangés dans un ordre methodique, suivant leurs | rapports & leurs affinitez, avec les noms sous | lesquels ils étoient connus aux Anciens, & | ceux sous lesquels ils le sont aujourd'hui. | Avec des Notes où l'on examine les caracteres historiques | & les usages des principaux d'entre'eux. | On y a joint quelques écrits concernant les mi- | neraux, & les autres productions souterraines. | Par Jean Woodward."; 311-338 (Qq4r-Vv1v), "Distribution Methodique Des Fossiles."; 339-374 (Vv2r-Aaa3v), "Lettres Ecrites Au Sujet Des Fossiles."; 374-375 (Aaa3v-Aaa4r), "Instructions Sur les Observations qu'il y a à faire par rapport aux coraux, aux corallines, & aux autres corps semblables."; 375-387 (Aa4r-Ccc2r), "Courtes Instructions Pour faire des observations & des collections, & pour dresser un Catalogue de toute sorte de Fossiles."; 387-389 (Ccc2r-Ccc3r), "Addition A la seconde Partie de l'Essay sur l'Histoire Naturelle de la Terre."; Ccc3v, "Approbation."; Ccc3v-Ccc4r, "Privilege Du Roy."; Ccc4v, Blank.

SCARCE. This volume contains translations of three books, all authored by Woodward. These are: (1) On pages 1-166, Woodward's "Essay," translated from the third English edition of 1723. (2) Pages 167-307 contain Woodward's reply to Camerarius' objections, made from Holloway's 1726 English Translation titled: "The Natural History of the Earth, illustrated, enlarged, and defended." (3) On pages 309-389 is the translation of "Fossils of all kinds," from which the author's preface and the plates have been omitted.

REFERENCES: Jahn, *Bibliographical History of John Woodward*, 1972: p. 198-9. • LKG: XIII 30d.

#### 5071. — French, 1735.

Geographie physique, ou essay sur l'histoire naturelle de la terre, traduit de l'Anglois, de Monsieur Woodward, par M. Noguez ... avec la réponse aux observations de M. le Docteur Camerarius; plusieurs lettres écrites sur la même matiere & la distribution méthodique des fossiles, traduits de l'Anglois, du même M. Woodward, par le R.P. Nicéron, Barnabite. A Amsterdam aux depens de la Compagnie. MDCCXXXV.

8°: [16], 1-496 p., folding plate.

VERY SCARCE. Eyles (1971) states that the title and contents are identical to the Paris edition, differing only in the imprint and the title vignette.

#### 5072. — Italian, 1739.

Geografia fisica, ovvero saggio intorno alla storia naturale della terra, del Sig. Woodward medico inglese: con la giunta dell' apologia del saggio contra le osservazione del Dotter Camerario; e d'un trattato de' fossili d'ognispezie' divisi metodicamente in varie classi. In Venezia presso Giambatista Pasquali. MDCCXXXIX.

8°: [16], 533, [3] p., title in red and black, folding engraved plate ("Taglio della terra nel suo diametro") same as that of the French 1735 edition.

VERY SCARCE. According to Eyles (1971), this work is presumably a translation from the French 1735 edition into Italian because the contents are identical

and in the same order as the French.

#### 5073. — German, 1744.

Physik. Eudbeschreibung, oder Versuch einer natürlichen Hidtorie des Erdbobens, wilcher zugleich die von dem berühmten E. Camerarius dagegen gemachte Einwurfe und des Autoris Beantwortung etc. bergefugt sind. Nach dem Franz. ubers. Erfurt, 1744.

6 vols.

VERY SCARCE. Edited and translated by E. Camerarius.

REFERENCES: LKG: XIII 31e.

#### 5074. — German, 1746.

D. Johann Woodward, | [...4 lines of titles and memberships...] | Beantwortung | derer | über seinen | Versuch | einer natürlichen Historie | des | Erdbodens | von dem Herrn D. Elia Camerarius | ... [Look at full size title] ... | [double rule] | Erfurt, | bey Johann Friedrich Weber, | Buchhändler, 1746.

8°: VERY SCARCE.

#### 5075. — Latin, 1714.

Johannis Woodwardi | Med. in Coll. Greshamensi Prof. &c. | Naturalis Historia Telluris | Illustrata & Aucta. | Una cum Ejusdem Defensione; | Præsertim contra | Nuperas Objectiones | D. El. Camerarii Med. Prof. Tubingensis. | Ad Illustrissimum & Nobilissimum Virum | Thomam Pembrochiæ Comitem, &c. | Accedit Methodica, & ad ipsam Naturæ Normam | instituta, Fossilium in Classes Distributio. | [rule] | Londini; | Typis J.M. Impensis R. Wilkin, ad Insigne Capitis | Bibliopol. Roterdami. MDCCXIV.

8°: A-I<sup>8</sup> K<sup>4</sup>; 76ℓ.; [2], i-v, [9], 1-105, [7], [1]-9, [4], 1-10, [1] p.

CONTENTS: [2 pgs], Title page, verso blank.; i-v, "Præfatio."; [1 pg], Blank.; [7 pgs], "Syllabus Rerum" [=table of contents]; [1 pg], Blank.; 1-105, Text.; [1 pg], Blank.; [1 pg], Sectional title page, "Methodica, | Et | Ad ipsam Naturæ Normam | Instituta, | Fossilium in Classes | Distributio. | Ad Illustrem Virum | D. Isaacum Newtonum, Eq. Aur. | Et | Soc. Reg. Præsidentem."; [1 pg], Blank.; [4 pgs], "Præfatio."; [1]-9, Text of classification.; [1 pg], Blank.; [1 pg], Sectional title page, "Syllabus | Rerum Corrigendarum | In | Geographiæ Physiæ Woodwardianæ | Versione Scheuchzeianâ, | Nunc demum recognitâ."; [1 pg], Blank.; [1 pg], "Præfatio."; 1-10, Text.; [1 pg], Blank.

RARE. Woodward's reply to the comments of Camerarius on his new geological and palaeontological teachings. The "Methodica" is addressed to Sir Isaac Newton. Woodward has included a synopsis of his system of mineralogical classification.

English translation by B. Holloway.

REFERENCES: Dana's 7th (Bibliography): 83. • LKG: XIII 29c.

5076. English transl., 1726: The natural history of the earth illustrated, enlarged, and defended / written originally in Latin ; and now first made English by Benj. Holloway

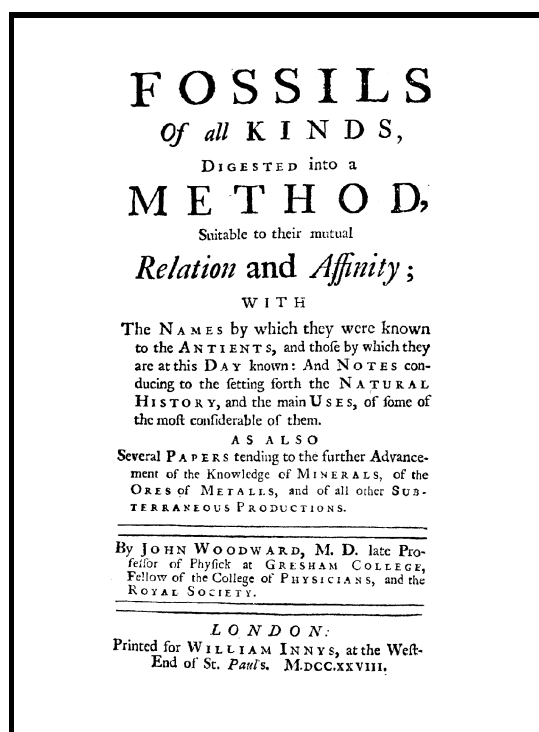
## WOODWARD

; to which are added, physical proofs of the existence of God, his actual incessant concurrence to the support of the universe, and of all organical bodies, vegetables, and animals, particularly man; with several other papers, on different subjects, never before printed; by John Woodward. London: Printed and sold by Tho. Edlin, 1726.

2 pts. ( 169, 163 p.)

VERY SCARCE. Translated by Benjamin Holloway [1691?-1759].

**5077. German transl., 1746:** D. Johann Woodward, ... Abhandlung von allen Gattungen derer Fossilien: Welche Nach der Aehnlichkeit und Verwandschaft, so sie unter einander haben, in eine richtige Ordnung sind gebracht worden, ... Nebst einem Anhang einiger Schriften, so die Mineralien und andere unter der Erde befindlichen Körper betreffen; Ehemals aus dem Englischen in die Frantzösische, und nunmehr aus dieser in die Teutsche Sprache übersetzt.. - [Erfurt], [1746]



FOSSILS OF ALL KINDS, 1728

### Fossils of all Kinds

#### 5078. — English, 1728.

Fossils | Of all Kinds, | Digested into a | Method, | Suitable to their mutual | Relation and Affinity; | with | The Names by which they are known | to the Antients, [sic] and those by which they | are at this Day known: And Notes con- | ducing to the setting forth the Natural | History, and the main Uses, of some of | the most considerable of them. | As Also | Several Papers tending to further

Advance- | ment of Knowledge of Minerals, of the | Ores of Metalls, and of all other Sub- | terraneous Productions. | [double rule] | By John Woodward, M.D. late Pro- | [...3 lines of titles and memberships...] | [double rule] | London: | Printed for William Innys, at the West- | End of St. Paul's. M.DCC.XXVIII.

8°: A<sup>4</sup> a<sup>4</sup> B-Aa<sup>4</sup> Bb<sup>2</sup>; 96ℓ.; [i]-xvi, [folding table], 1-56, 1-92, [4], 93-131, [1] p., [1] folding table, 7 plates. PAGE SIZE: 192 x 114 mm.

CONTENTS: [i-ii], Title page, verso blank.; [iii]-xvi, "The | Preface."; [Folding table]; 1-56, "A Methodical Distribution."; 1-92, "Letters ..."; [3 pgs], "The | Preface."; [1 pg], Blank.; 93-107, Text.; 107-119, Appendices.; 120-126, "Number IX. | An Addition to the second Part | of the Essay towards a Natural | History of the Earth."; 127-130, "A | Mineral Dictionary; | Or | An alphabetical | Index."; 131, "Index of Things occasio- | nally treated in these Papers."; [1 pg], "Books printed for William Innys."

VERY SCARCE. *Fossils of All Kinds* is one of the earliest attempts to systemize mineralogy. First published as an appendix to *Naturlis Historia Telluris* (London, 1714), Woodward translated and enlarged this essay into the present work. Woodward's system divides minerals into six classes: 1) Earths, 2) Stones, 3) Salts, 4) Bitumens, 5) Minerals, 6) Metals. In turn each of these classes is subdivided by the physical properties of the specimens, including taste, color, touch, etc. By this method, about 200 minerals are classified and described. The volume also contains a folding table (384 x 220 mm., facing page 1) that outlines the overall classification. The six plates illustrate a discussion of the origins of stone artifacts.

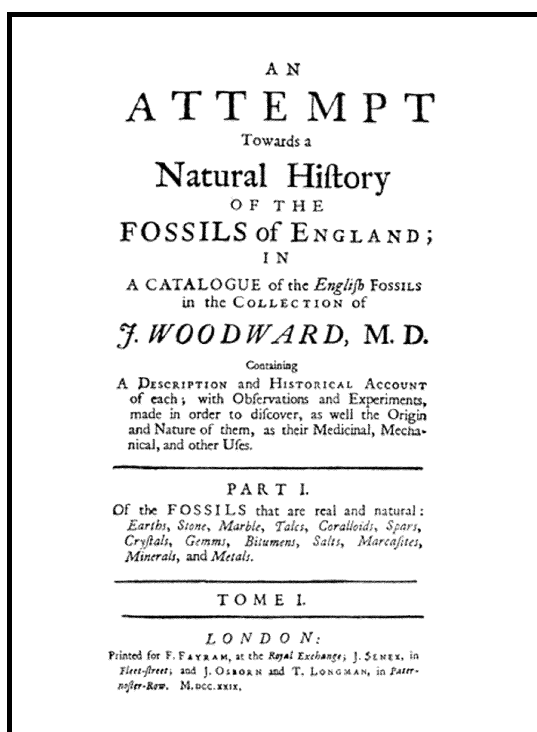
REFERENCES: Dana's 7th (Bibliography): 83. • DSB: 14, 500-3 [by V.A. Eyles]. • LKG: XII 11 & XIV 415. • Porter, *Making of Geology*, 1980: 55-6. • Smith, *Early Mineralogy in Great Britain*, 1978: 52.

### An Attempt

#### 5079. — English, 1728-9.

An | Attempt | Towards a | Natural History | Of The | Fossils of England; | In | A Catalogue of the English Fossils | in the Collection of | J. Woodward, M.D. | Containing | A Description and Historical Account | of each; with Observations and Experiments, | made in order to discover, as well the Origin | and Nature of them, as their Medicinal, Mecha- | nical, and other Uses. | [rule] | Part I. [-II.] | Of the Fossils that are real and natural: | Earths, Stone, Marble, Talcs, Coralloids, Spars, | Crystals, Gemms, Bitumens, Salts, Marcasites, | Minerals, and Metals. | [rule] | Tome I. [-II.] | [rule] | London: | Printed for F. Fayram, at the Royal Exchange; J. Senex, in | Freet-street; and J. Osborn and T. Longman, in Pater- | noster-Row. M.DCC.XXIX.

2 vols. usually bound as one. [vol 1] 8°: [A]-Q<sup>8</sup> R<sup>6</sup> S-Z<sup>8</sup> 2A<sup>8</sup> 2B<sup>2</sup>; 192ℓ.; [i]-xvi, 1-243, [1] blank, [i]-viii, 1-115, [1] blank p.; [vol 2] 8°: 2B<sup>3</sup>-2B<sup>4</sup> 2C-2I<sup>8</sup> 2K<sup>2</sup> 2L-2N<sup>8</sup> 2O<sup>4</sup> 2P-2Q<sup>8</sup> 2R<sup>4</sup> 2S<sup>8</sup> 2T<sup>4</sup> 2U<sup>8</sup>; 128ℓ.; [i]-iv, 1-110, [2] blank, [i]-iv, 1-52, [i]-iv, 1-33, [1] blank, [i]-vi, 1-21,



AN ATTEMPT, 1728

[1] blank, [2], 1-15, [1] blank p. PAGE SIZE: 194 x 115 mm.

CONTENTS: [Vol 1] [i-ii], Title page, verso blank.; iii-vi, "The | Publisher to the Reader."; vii-xiv, "The Preface."; xv-xvi, "The General Index."; 1-243, Text.; [1 pg], Blank.; [i], A | Catalogue | of the | English Fossils | In the Collection of | J. Woodward M.D. | Part II. | ..."; [ii], Blank.; iii, "Index of the Preface to the Whole."; iv-viii, "Index Rerum."; 1-7, "Preface to the Whole."; 8-115, Text.; [1 pg], Blank.

[Vol 2] [i-ii], Title page, "A | Catalogue | of the | Additional English Native Fossils, | in the | Collection | of | J. Woodward M.D. | Tome II. | [ornament] | London, | Printed in the Year M.DCC.XXVIII. | Bb3." verso blank.; iii, "Preface."; iv, "General Index."; 1-110, Text.; [2 pgs], Blank.; [i], "A | Catalogue | of the | Foreign Fossils | In the Collection of | J. Woodward M.D. | Part I. | ..."; [ii], Blank.; iii-iv, "Index Rerum."; 1-52, Text.; [i], "A | Catalogue | of the | Foreign Fossils | In the Collection of | J. Woodward M.D. | Part II. | ..."; [ii], Text, dated 10 July 1725.; iii-iv, "Index Rerum."; 1-33, Text.; [1 pg], Blank.; [i], "An | Addition | to the | Catalogue | of the | Foreign Native Fossils | In the Collection of | J. Woodward M.D."; [ii], Blank.; iii-v, "Preface."—dated 23 August 1725.; vi, "Index Rerum."; 1-21, Text.; [1 pg], Blank.; [1 pg], "An | Addition | to the | Catalogue | of the | Foreign Exteraneous Fossils | In the Collection of | J. Woodward M.D."; [1 pg], "Index Rerum."; 1-15, Text.; [1 pg], Blank.

VERY SCARCE. *An Attempt Towards a Natural History of the Fossils of England* was Woodward's last book, having been issued posthumously. In itself, the work is a remarkable catalog of the very large collection of both foreign and English fossils and minerals the author amassed during his life

time. Between four and five thousand specimens are arranged and described under eleven separate classes—the number of classes having been increased by five over *Fossils of All Kinds Digested* (London, 1728). Volume one describes the minerals and fossils found in England which Woodward bequeathed, along with an endowment for a professorship, to Cambridge University, where, to this day, they are maintained in their original cabinets, according to Woodward's scheme. The second volume consists of those minerals and fossils, both English and foreign, that he thought were of lesser importance. These specimens were auctioned off along with Woodward's library on 11 November 1728.

REFERENCES: Dana's 7th (Bibliography): 84. • Kázmér, M., "Carpathian minerals in the eighteenth-century Woodwardian collection at Cambridge," *Journal of the History of Collections*, 10 (1998), no. 2, 159-68.



WORM

**WORM, Ole.** (BORN: Aarhuus, Denmark, 13 May 1588; DIED: Copenhagen, Denmark, 7 September 1654) *Danish physician.*

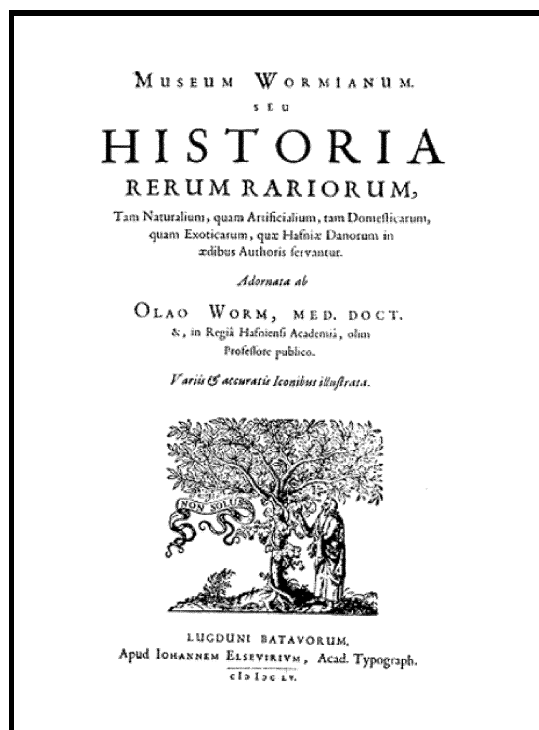
Worm was a professor of natural philosophy and medicine at the University of Copenhagen. He began collecting minerals in 1620.

REFERENCES: Bartholin, T., *Thomæ Bartholini Oratio in excessum viri incomparabilis Dn. D. Olai Wormii, medicinæ professoris regii*. Hafniæ: Typis hæredum Melch. Martzani: apud Georg. Holst. Bibl., 1655. 75, [5] p. • *Dansk Biografisk Lexikon*: 19, 186-95 [by J. Petersen & L. Wimmer]. • Ehrencron-Müller, *Forfatterlexikon*, 1974-89: 9, 191-7. • Garboe, *Geologiens Historie i Danmark*, 1959-61: 1, 25-34, portrait (painting by Karel van Mander). • Garboe, Axel, "Thomas Bartholin og rav-studiet i Danmark. Et blad af Mineralogisk Museums historie," *Meddr dansk bot. Foren.*, 11 (1947), 97-116, 3 figs. • Hovesen, E., *Laegen Ole Worm, 1588-1654: en medicinhistorisk undersøgelse og vurdering*. Århus: Aarhus Universitetsforlag, 1987., 367 p., illus., index, biblio. • Jorgensen, F., ?????????? København K, Udgiveren, Rigsarkivet, Rigsdagsgården 9, 1970-1. • Poggendorff: 2, col. 1368. • Sarjeant, *Geologists*, 1980: 3, 2462-3. • SBA: Scandinavian Biographical Archive: A-361, 234-299 & A-361, 300-306. • Schepelern, H.D., *Museum Wormianum. Dets Forudsætninger og Tilblivelse*. København: Wormianum, 1971. 435 p., 106 unnumbered illustrations. [Ph.D. Dissertation, University of Copenhagen. Gives



## WORM

historical reflections on Worm's life and his reasons for collecting. A summary in English is on pages 367-383, and a bibliography on pages 384-399. See *Dissertation Abstracts International*, 37 (1977), 3285-C.]. • WBI. • Wilson, *History of Mineral Collecting*, 1994: 40 & 128. • Worm, O., *Breve fra og til Ole Worm* København: Munksgaard, 1965-68. 3 vols., portraits, facsimiles. [Worm's letters: vol. 1 covers the years 1607-1636, vol. 2, 1637-1643 and vol. 3, 1644-1654]. • Worm, O., *Ole Worm's Correspondance with Icelanders*. Edited by Jakob Benediktsson Copenhagen: Ejnar Munksgaard, 1948., xxxvii, 552 p.



MUSEUM WORMIANUM, 1655

### 5080. — Latin, 1655.

Museum Wormianum. | Seu | Historia | Rerum Rariorum, | Tam Naturalium, quam Artificialium, tam Domesticarum, | quam Exoticarum, quæ Hafniæ Danorum in | ædibus Authoris servantur. | Adornata ab | Olao Worm, Med. Doct. | &, in Regiâ Hafniensi Academiâ, olim | Professore publico. | Variis & accuratis Iconibus illustrata. | [vignette] | Lugduni Bataavorum, | Apud Iohannem Elsevirium, Acad. Typograph. | [short rule] | c1655.

2°: \*6 A-Z<sup>4</sup> 2A-2Z<sup>4</sup> 3A-3C<sup>4</sup>; 202ℓ.; [12], [1]-389, [3] index p., engraved portrait of Worm, engraved double page plate of the museum, title vignette, numerous woodcuts some of which are full page. Head and tail pieces, engraved initial letters at the beginning of each Liber. PAGE SIZE: 370 x 225 mm.

CONTENTS: [2 pgs], Title page, verso blank.; [4 pgs], Dedication to King Friderico III of Denmark and Norway, signed "W. Worm, Olai Fil."; [3 pgs], "Olaus Worm, | Med. Doct. & Profess. Regius, | Lectori | S.P."; [1 pg], "Authores | Quorum in hoc Opere mentio fit." [Lists about 200 authors mentioned in the text.]; [2 pgs], "Index Capitvm." [Table of contents.]; [Double plate of the interior of the museum.]; [Portrait of Worm.]; 1-136, "Musei Wormiani | Historiæ | Liber Primvs. | Sectio Prima. | Cap. I. | De fossilibus in genere."; 137-238, "Musei Wormiani | Historiæ | De | Vegetabilibus Rarioribus | Liber Secundus."; 239-345, "... | De | Animalibus | Liber Tertius."; 346-389, "... | De | Artificiosis | Liber Quartus."; [3 pgs], "Index | Præcipuarum rerum, quæ in hoc opere continentur."

PLATES: The double plate of the interior of the museum measures 295 x 380 mm. It has the following description incorporated into the design, "Musei | Wormiani | Historia | Lugd. Bataavorum | Ex Officina Elseviriana | Acad. Typog: 1655." The portrait of Worm measures 280 x 185 mm. It is signed at the bottom "C. van Mander pinxit. G. Wingsdorp sculp." It consists of an oval frame surrounding Worm's face and shoulders. The frame is engraved with the text, "Olaus Worm D. Medicinæ In Academia Hafniensi Professor Regius A. M.DC.LIV. Ætat:LXVI." The engraving is overprinted at the bottom with two Latin quotations. One in signed "Constanter" and the other "Th. Bartholinus."

VERY SCARCE. Edited and published posthumously by Ole's son, Willum Worm [1633-1704]. *Museum Wormianum* is not a mere inventory of Worm's collections as was typical of the time. Instead it is a detailed, descriptive and historical catalog of the objects described. For more than a century after its publication, this work was a recognized textbook of archaeology, and it is still valuable as a summary of the scientific opinion on natural history and especially mineralogy and museology of the seventeenth century.

Worm's collection took shape between 1620 and 1654. It covered the kingdoms of nature and art, starting with the lowest, namely stones and minerals, then progressing toward the more complex plants, animals, and finally to artificial objects created by man. Within this systematic context *Museum Wormianum* describes all manner of various curiosities in the author's collection of ancient objects, including decorated ivory, coins, stuffed birds and fish, water plants, dried plants, shells, minerals, precious stones, etc. The volume usually gives marvellously detailed descriptions of the objects, and being a medical man, Worm very often included notes prescribing the medical uses of the objects.

Aside from the scientific aspects, the main beauty of the book are the more than one hundred, faithful woodcuts illustrating the described objects. Some of these have been copied from the earlier works of Aldrovandi, Mercati and Calceolari [qq.v.], but many are original, done under Worm's supervision in Copenhagen. Included is a fine portrait of Worm, aged 66, but the most notable is the double page plate showing the interior of the museum, from which many individual objects are identifiable. Particularly interesting are the shark, whale and polar bear hanging from the room's ceiling. Worm began collecting minerals in 1620 and the first three chapters of this work are devoted to describing the stones, fossils and minerals in the collection.

These chapters are equally well illustrated.

From 1648 until his death, Worm had been court physician to King Frederic III [1609–1670] of Denmark. He also shared with the King a interest in collecting natural history objects. After Worm's death, it may have been at the behest of the King that *Museum Wormianum* was published. This is perhaps indicated by the flattering dedication provided by the books editor, Willum Worm, and the fact that King Frederic purchased Worm's collection soon afterward for incorporation into the Royal Kunstkammer, where several of Worm's objects are still identifiable today.

The text is divided into four Liber or books. The mineralogical portion is contained in Liber I. It contains three sections of which the first concerns fossils and earths, the second covers stones and the third describes the metals. Liber II describes botanical specimens. Liber III covers animals and Liber IV covers artificial or manmade objects.

Starting in 1635, the physician Georg Segeri [1629–1678] began publishing an outline of Worm's arrangement. These appeared in volumes under the title, *Synopsis Methodica Rariorum in Museo Olai Wormii* (Lugduni Batavorum, 1635; 1642; 1645; 1653; 1658).

**Another issue, 1655:** *Museum Wormianum* ... Amstelodami, apud L. et D. Elzevirios, 1655. Identical to the Lugduni Batavorum issue except for the place of publication on the title page. Apparently the Amstelodami imprint is the much rarer issue.

**Karel van Mander III.** (BORN: 1610; DIED: 1672) *Dutch illustrator/engraver.* Mander III was appointed painter to the Danish court. He painted portraits of many Danish courtiers.

REFERENCES: Beekman, *Systematische Mineralogie*, 1906: 27-8. • BL: • BMC: 5, 2362. • CBN: 227, cols. 217-8. • Cobres, *Deliciae Cobresianæ*, 1782: 1, 98-9 ["Ein schönes Werk."]. • Ehrencron-Müller, *Forfatterlexikon*, 1974-89: 9, 191-7. • *Freilich Sale Catalog*: no. 563. • Garboe, *Geologiens Historie i Danmark*, 1959-61: 1, 25-34. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 281. • LKG: XVII 110. • Murray, *Museums*, 1904: 1, 104-6. • Nissen (ZBI): no. 4473. • NUC: 674, 433-5 [NW 0457553]. • Schepelern, *Early Copenhagen Collections*, 1985. • Schepelern, H.D., "The Museum Wormianum reconstructed: a note on the illustration of 1655," *Journal of the History of Collections*, 2 (1990), 81-5. • Schepelern, H.D., *Museum Wormianum. Dets Forudsætninger og Tilblivelse*. København: Wormianum, 1971. 435 p., 106 unnumbered illustrations. [Ph.D. Dissertation, University of Copenhagen. Gives historical reflections on Worm's life and his reasons for collecting. A summary in English is on pages 367-383, and a bibliography on pages 384-399. See *Dissertation Abstracts International*, 37 (1977), 3285-C.]: [Ph.D. Dissertation, University of Copenhagen.]. • Wilson, *History of Mineral Collecting*, 1994: 41, 128 & 228. (Mander III) *Bryan's Dictionary of Painters*, 1903-4: 3, 274. • Thieme & Becker, *Allgemeines Lexikon*, 1907-50: 23, 608 [by I. Buhl].

## WOSSIDLO, Paul.

### 5081. — German, 1869.

Grundriss der Mineralogie für Schulen. Von Dr. Paul Wossidlo ord. Lehrer an der Realschule am ger. Breslau, Maruschke & Berendt, 1869.

8°: vi, 48 p. VERY SCARCE.

REFERENCES: BL: [7106.aa.54.].

### 5082. — German, 1889 [First edition].

Leitfaden der Mineralogie und Geologie | für höhere Lehranstalten | von | Dr. Paul Wossidlo | Direktor des Realgymnasiums zu Tarnowitz | Mit 696 in den Text gedruckten Abbildungen und einer geologischen Karte | in Buntdruck. | [ornate rule] | Berlin | Weidmannsche Buchhandlung | 1889.

8°: vi, 238 p., 696 illus., one geological map.

VERY SCARCE. In this textbook for highschool level courses, the text is divided into two major sections of mineralogy and geology.

Companion volumes of zoology and botany were also written by Wossidlo, and these each went through many editions.

Erster Abschnitt - Mineralogie im engeren Sinne I. Kennzeichenlehre II. Beschreibung der wichtigsten Mineralien

Zweiter Abschnitt - Geologie I. Petrographie oder Gesteinslehre II. Vulkanische Erscheinungen III. Die erd-bildende Tätigkeit des Wassers IV. Schichtung, Lagerung und Alter der Gesteine V. Erdformationen

REFERENCES: BL: [no copy listed]. • NUC.

**5083. 2nd edition, 1910:** Leitfaden der Mineralogie und Geologie für höhere Lehranstalten. Mit 693 in den Text gedruckten Abbildungen und einer geologischen Karte in Buntdruck. Zweite Auflage. Berlin, Verlag Weidmann, 1910.

8°: vi, 240 p. SCARCE.

REFERENCES: BL: [no copy listed]. • NUC.

### 5084. — German, 1892.

Anfangsgründe der Mineralogie für Gymnasien, Real- und höhere Bürgerschulen. Von Paul Wossidlo. Mit 373 in den Text gedruckten Abbildungen. Berlin, Weidmann, 1892.

8°: vi, 112 p. VERY SCARCE.

REFERENCES: BL: [no copy listed]. • NUC.

**WOULFE, Peter.** (BORN: Ireland?, 1727?; DIED: London, England, 1803) *Irish chemist.*

Little is know of Woulfe's life before his election in 1767 to the Royal Society, where he was described as a "Gentleman well skilled in Natural Philosophy and particularly Chymistry." (DSB) In December 1775, he was selected to deliver the first Bakerian Lecture at the Society, which occurred on the 20th June 1776. Woulfe was a good friend of Joseph Priestley.

REFERENCES: Allibone, *Dictionary of English Literature*, 1859-71. • BBA: I 1198, 224-228; II 1854, 312-313. • DNB: 63, 63-4 [by P.J Hartog]. • DSB: 14, 508-9 [by E.L. Scott]. • Partington, *History of Chemistry*, 1961-70: 3, 300-1. • Poggendorff: 2, cols. 1368-9. • Watt, *Bibliotheca Britannica*, 1824. • WBI.

### 5085. — English, 1777.

Experiments | made in order to ascertain | The Nature of some Mineral Substances; | and, in particular, | To see how far the Acids of Sea-Salt and Vitriol con- | tribute to Mineralize Metallic and other Substances. | By Peter Woulfe, F.R.S. | Who was nominated by the President and Council | to prosecute Discoveries in Natural History, pursuant to the Will of the late Henry Baker, Esq. F.R.S. | Read at the Royal Society,

June 20, 1776. | London: | Printed in the year  
MDCCLXXVII.

4°: A-B<sup>4</sup> C<sup>2</sup>; 10*l.*; [1]-19, [1] p. Tailpiece.  
CONTENTS: [1-2], Title page, verso blank.; [3]-19,  
Text.; [1 pg], Blank.

RARE. In this paper, Woulfe describes 25 experiments made to determine how the mineralization by acid of salt (hydrochloric) and acid of vitriol (sulphuric) occurs. He reaches the conclusion that only silver and mercury are the only metals naturally mineralized in this way. Woulfe presented this paper as the first of the Bakerian Lectures (June 20, 1776).

Henry Baker [1698-1774] had bequested an endowment to finance a series of yearly lectures at the Royal Society. Woulfe was nominated in 1775, the first year the Society received the funds. Although this substance of this paper was published in the *Philosophical Transactions of the Royal Society* (66 (1776), 605ff.), this printing apparently was separate and not an off-print.

REFERENCES: BL: [B.366.(2.)]. • Cole, *Chemical Literature*, 1988: no. 1389. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 289. • NUC: 674, 636 [NW 0461315]. • Partington, *History of Chemistry*, 1961-70: 4, 40.

**5086. German transl., 1778:** Versuch über die innere Mischung einiger Mineralien: um zu bestimmen, in wie fern durch die Kochsalz= und Vitriol=Säure metallische und andre Substanzen vererzt werden können, von Peter Wolfen; aus dem Englischen übersetzt und mit einigen Anmerkungen versehen von J.G. Gehler. Leipzig, 1778.

8°: 31 p.

RARE. Translation by J.G. Gehler of *Experiments Made in Order to Ascertain the Nature of some Mineral Substances* (London, 1777).

REFERENCES: *Allgemeine Deutsche Bibliothek*: Supplement to vols. **25-36**, 1173. • Beckmann *P.O.B.*: 9, 89. • BL: [970.i.4.(1.)]. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 289.

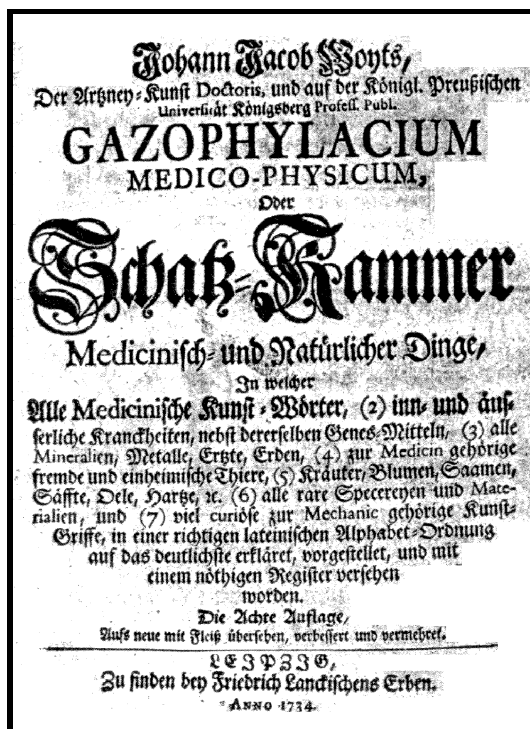
**WOYT, Johann Jacob.** (BORN: Elbing, Germany, 14 August 1671; DIED: Königsberg, Germany??, 29 December 1709) *German physician*.

Woyt studied in Königsberg and Leipzig, graduating from Copenhagen in 1697. In 1706, he was named professor of medicine at the University of Königsberg.

REFERENCES: DBA: I 1394, 332. • Ferchl: 589. • Hirsch, *Biographisches Lexikon*, 1884-8: 6, 333. • Jöcher, *Gelehrten-Lexikon*, 1750-51. • WBI.

**5087. — German, 1734.**

[In red:] Johann Jacob Woyts, | [in black:] Der  
Arznei=Kunst Doctoris, und auf der Königl.  
Preußichen | Universiät Königsberg Profess. Publ.  
| [in red:] Gazophylacium | [in black:] Medico-  
Physicum, | Oder | [in red:] Schatz=Kammer |  
[in black:] Medicinisch= und Natürlicher Dinge, | In  
welcher | [in red:] Alle Medicinische Kunst=Wörter,  
(2) inn= und aus= | [in black:] serliche  
Krankheiten, nebst dererselben Genes=Mitteln,  
(3) alle Mineralien, Metalle, Ertzte, Erden, (4)  
zur Medicin gehörige | fremde und einheimische  
Thiere, (5) Kräuter, Blumen, Saaamen, | Säfte,  
Oele, Hartze, &c. (6) alle rare Specereyen und



GAZOPHYLACIUM, 1734

Mate- | rialien, und (7) viel curiose zur  
Mechanic gehörige Kunst= | Griffe, in einer  
richtigen lateinischen Alphabet=Ordnung | auf  
das deutlichste erklärt, vorgestellt, und mit |  
einem nöthigen Register versehen | worden. | Die  
Achte Auflage, | Augs neue mit Fleiß übersetzt,  
verbessert und vermehret. | [rule] | Leipzig, | [in  
red:] Zu finden bey Friedrich Landischens Erben. |  
[in black:] Anno 1734.

4°: [6], 1035, [68] p., engraved frontispiece,  
showing 9 compartments, arranged 3 by 3, with the  
center one containing the wording, "Gazophylacium  
| Medico-Physicum | ..." and the others depicting  
various surgical operations, chemical apparatus and an  
apothecary cabinet. Title in red and black.

VERY SCARCE. Chief work of the physician  
J.J. Woyt being a compendium of recipes and  
healing remedies, based on the use of herbs, minerals  
and metals. It is arranged alphabetically with a  
comprehensive index.

A popular work it went through 13 editions  
beginning in 1709.

REFERENCES: Reiss, K., "J.J. Woyt's Schatzkammer,"  
*Wiener Medicische Presse*, **13** (1872), 129.

**5088. 1737:** Gazophylacium medico-physicum, oder, Schatz-  
Kammer medicinisch- und natürlicher Dinge : in  
welcher alle medicinische Kunst-Wörter, (2) inn- und  
äusserliche Krankheiten, nebst dererselben Genes-Mitteln,  
(3) alle Mineralien, Metalle, Ertzte, Erden, (4) zur  
Medicin gehörige fremde und einheimische Thiere, (5)

Kräuter, Blumen, Saamen, Säfte, Oele, Hartze, &c. : (6) alle rare Specereyen und Materialien, und (7) viel curiöse zur Mechanic gehörige Kunst-Griffe, in einer richtigen Lateinischen Alphabet-Ordnung auf das deutlichste erkläret, vorgestellet, und mit einem nöthigen Register versehen worden / Johann Jacob Woyts ... Die neunte Auflage, aufs neue mit Fleitz übersehen, verbessert und vermehret. Leipzig : zu finden bey Friedrich Lanckischens Erben, anno 1737.

4<sup>o</sup>: a<sup>3</sup> b<sup>4</sup> A-7T<sup>4</sup>; ?? *ℓ.*; [6], 1035, [69] p., [1] leaf of plates. Author's name at head of title. Title in red and black, head- and tail-pieces, initials. Includes bibliographical references and index.

VERY SCARCE. References G. Urdang. The Squibb ancient pharmacy. (New York, 1940).

**5089. 5th edition, 1761:** *Gazophylacium medico-physicum, oder Schatz-Kammer Medicinisch- und natürlicher Dinge, in welcher Alle Medicinische Kunst-Wörter, inn- und äusserliche Kranckheiten alle Mineralien, Metalle, Ertze.* 5th edition. Leipzig, Lankischens Buchhandlung 1761.

4<sup>o</sup>: Engraved frontispiece, (14) pp, 2524 cols, (82) pp. VERY SCARCE.

**5090. 6th edition, 1767:** *Gazophylacium medico-physicum, oder, Schatz-Kammer medicinisch-und natürlicher Dinge : in welcher alle medicinische Kunst-Wörter, inn-und äusserliche Kranckheiten, nebst dererselben Genesmitteln, alle Mineralien, Metalle, Ertzte, Erden, zur Medicin gehörige fremde und einheimische Thiere, Kräuter, Blumen, Saamen, Säfte, Oele, Hartze &c., alle rare Specereyen und Materialien, in einer richtigen Lateinischen Alphabet-Ordnung auf das deutlichste erkläret, vorgestellet, und mit einem nöthigen Register versehen sind / D. Johann Jacob Woyts ... ; mit Fleiss übersehen, verbessert und vermehret von D. Johann Ernst Hebenstreit ... Die sechszehende Auflage, mit Kupfern.* Leipzig : bey Johann Friedrich Junius, 1767.

4<sup>o</sup>: [14] p., 2524 columns, [82] p., [2] leaves of plates (1 folded). Printed in double columns. Last page blank. Title in red and black, head- and tail-pieces, initials. Includes bibliographical references and index.

VERY SCARCE. Contributors Hebenstreit, Johann Ernst, 1703-1757

References G. Urdang. The Squibb ancient pharmacy. (New York, 1940).

#### 5091. — Dutch, 1741.

*Gazophylacium medico-physicum, of Schat-Kamer der genees- en natuur-kundige zaaken.* t' Amsterdam, by de Janssoons van Waesberge, Hendrik Viroot, Abraham en Isaak Graal, 1741.

4<sup>o</sup>: [28, inclusief gegraveerde titel en typografische titel met vignet]-590-[27-1 bl.] pp., 4 platen.

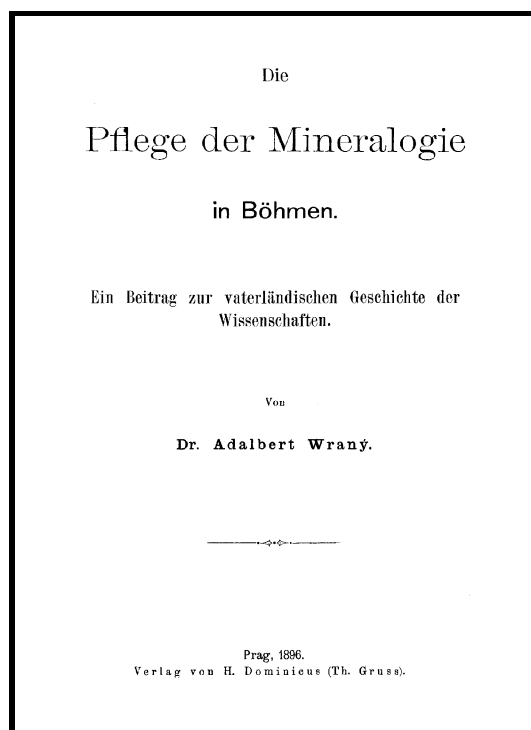
VERY SCARCE. An interesting medical encyclopedia, translated from the German by Joann. Christ. Schmellentin. The work contains a beautiful engraved title with the show of a natural history cabinet by J.C. Philips and 4 engraved plates with the symbols of chemical elements and medical substances.

**WRANÝ, Adalbert.** (BORN: 1836; DIED: Prag, Czech., 1902) *Czech physician.*

A physician and historian who wrote several well-referenced and valuable texts describing the development of various scientific studies in Bohemia. He was an avid mineral collector, accumulating a collection of at least 4500 numbered specimens.

REFERENCES: Fruton, *Bio-Bibliography*, 1982: 784. • Kops, J., *Zdravotnicka Pracovnice*, 25 (1975), 740-1. • Matousek, O., *Casopis Lékařů Českých*, 91 (1952), 1079. • Navrátil, M., *Almanach Českých Lékařů*, Prague, 1913: 361-2. • Roth, *Personalbibliographien von Professoren in Prag*,

1972: 152-7. • Wrany, *Pflege der Mineralogie in Böhmen*, 1898: 165, 318, 319 & 379.



PFLEGE DER MINERALOGIE, 1896

#### 5092. — German, 1896.

Die | Pflege der Mineralogie | in Böhmen. |  
Ein Beitrag zur vaterländischen Geschichte der |  
Wissenschaften. | Von | Dr. Adalbert Wrany. |  
[ornate rule] | Prag, 1896. | Verlag von H. Dominicus  
(Th. Gruss).

8<sup>o</sup>:  $\pi^4$  1-26<sup>8</sup> 27<sup>3</sup>; 215 $\ell.$ ; [I]-VIII, [1]-421, [1] p., name and subject indexes. PAGE SIZE: 240 x 150 mm. uncut.

CONTENTS: [I-II], Title page, verso "K. u. k. Hofbuchdruckerei A. Haase, Prag."; [III]-VI, "Vorwort."—dated July, 1895.; VII-VIII, "Inhalts-Uebersicht."; [1]-386, Text.; [387]-392, "Berichtigungen und Zusätze."; [393]-400, "Namen-Register."; [401]-421, "Sach-Register."; [1 pg], Blank.

VERY SCARCE. Detailed history of the development of mineralogical science in the region of Bohemia. The text contains copious notes on the biographies and printed works of the researchers, and is very valuable for noting references that would otherwise go unnoticed. The name index lists about 640 names mentioned in the text.

REFERENCES: BL. • NUC.

**WREDE, Erhard Georg Friedrich.** (BORN: 1766; DIED: 1826) *German theologian & mathematician.*

REFERENCES: Poggendorff: 2, cols. 1369-70.

## WULFEN

### 5093. — German, 1794.

Geologische Resultate aus Beobachtungen über einen Theil der Sudbasaltischen Länder von Erhard Georg Friedrich Wreder. Halle, 1794.

8°: xii, 204 p., one folding map, illus. RARE.  
REFERENCES: LKG: XIV 210.

### 5094. — German, 1804.

Geognostische Untersuchungen über die Sudbaltischen Länder, besonders über das untere Odergebiet; nebst einer Betrachtung über die allmähliche Veränderung des Wasserstandes auf der nördlichen Halbkugel der Erde und deren physische Ursachen. Berlin, 1804.

8°: xx, 132 p., illus. RARE.  
REFERENCES: LKG: XIV 211a.

### WRIGHT, Edward.

REFERENCES: Poggendorff: 2, cols. 1370-1 ??.

### 5095. — Latin, 1753.

Dissertatio Medica Inauguralis de Ferri Historia Naturali, praeparatis et usu medico, quam ... pro gradu doctoratus summisque in medicina honoribus ... legitime consequendis, eruditorum examini subjicit Eduardus Wright, ... ad diem 15. junii ... Edinburgi, apud Hamilton, Balfour et Neill, 1753.

8°: [4], 59 p.

RARE. A description of iron in nature and medicine.

REFERENCES: BL: [T.224.(8.)]. • LKG: XVI 245. • NLM 18th Century Books (Blake): ??.

### WUCHERER, Johann Friedrich.

REFERENCES: DBA: I 1396, 71-79. • Günther, *Lebensskizzen der Professoren*, 1858. • Jöcher, *Gelehrten-Lexikon*, 1750-51. • Poggendorff: 2, col. 1371. • WBI.

### 5096. — Latin, 1729.

Historia creationis quatenus illa capite primo Geneseos continetur, observationibus physicis illustrata. Jenae, 1729.

4°: [4], 259 p. With the text in Hebrew, Greek,

Latin, English, and French. RARE.

REFERENCES: BL: [01903.b.6].

**WULFEN, Franz Xavier.** (BORN: Belgrade, Serbia, 5 November 1728; DIED: Klagenfurt, Austria, 16 March 1805) *Austrian theologian, botanist & mineralogist.*

Wulfen was born into a family descended from an old Swedish-Pomeranian noble family of Rügen Island in the Baltic. His father Christian Friedrich von Wulfen was a field marshal in the Austrian army, which afforded the family a comfortable life. He was educated in the Gymnasium in Kaschau in upper Hungary [now Košice, Czechoslovakia]. At the age of 17, Wulfen entered the Order of the Society of Jesus (Roman Catholic) in Vienna as a novice. During his training, he became known both for his diligence and his talents in mathematics and philosophy. In 1755 after his education was completed, Wulfen taught grammar of the classical languages in the Gymnasium of Görz [now Gorizia, Italy]. The following year he taught similar subjects at the Theresian Ritterakademie



WULFEN

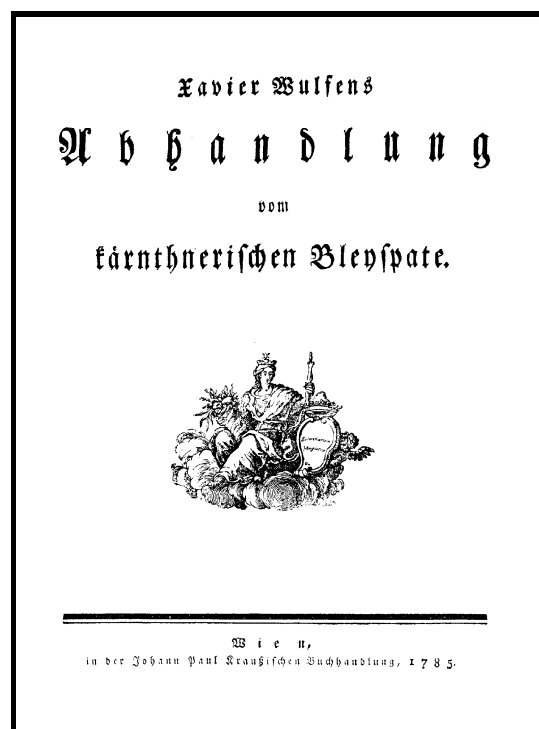
in Vienna. Subsequently he gave lectures in the subjects of mathematics, logic and metaphysics in both Görz and Laibach [now Ljubljana, Serbia?]. In 1763 Wulfen was ordained a priest in the Jesuit order, and in 1769 he was transferred to Klagenfurt, Austria, where he spent the remainder of his life. There he became known for his benevolence and charity to those less fortunate than himself. Wulfen died in his 77th year from an infection of the lung.

The dramatic beauty of the mountains surrounding Klagenfurt frequently lured Wulfen to take long hikes along their slopes. Before coming to Klagenfurt, he had already established himself as a keen botanical observer by having published several papers on the subject. But it was during the excursions through the mountains that Wulfen conducted the studies into Austrian natural history that he is best remembered for today.

This research lead him to publish a series of well illustrated works on the insects, plants and minerals of the area. Through a long correspondence, Wulfen had become personally close to the Swede Carl Linné [q.v.]. As a consequence, in all these publications, Wulfen followed the theories and nomenclature of Linné. They are also publications that through out their text show the mark of an author in love with the subject he is describing. For the large number of new plant species discovered, a complete plant genus, *Wulfenia* (family *Scrophulariaceae*) was named in his honor. Wulfen's contributions to mineralogy are discussed below.

REFERENCES: ADB: 44, 268-9. • Arnold, F., "Zur Erinnerung an Freiherr von Wulfen," *Verhandlungen der zoologische-botanische Gesellschaft in Wien*, 1882. • DBA: I 1397, 213-227; II 1432, 418-419. • Hunt Portrait Catalog: 444. • Klemun, M., "Arbeitsbedingungen eines Naturforschers im Kärnten des 18. Jahrhunderts am Beispiel Franz Xaver Wulfens," *Carinthia I*, 174 (1984), 357-74. • Kunitsch, M. von., *Biographie des Franz Xaver Freyherrn von Wulfen, der weltweisheit Doctor, der erloschenen Gesellschaft Jesu, Mitglied ... Mit Portrait*. Wien, Gassler, 1810, 35, [1] p., portrait. • Lambrecht & Quenstedt, *Catalogus*, 1938: 470. • Meixner, *Mineralogischen Erforschung Kärntens*, 1951: p. 17-8. • Mitchell, R.S., "Who's Who in Mineral Names. Franz Xaver von Wulfen (1728-1805)," *Rocks and Minerals*, 56 (1981), 163-4, portrait. • Nardo, G.D., *Severio Wulfen illustre naturalista di Klagenfurt ... Nota*. Venezia, [1868]. • Nau, R., "Der 'Weisse Mann' vom Nassfeld der Botaniker Franz Xavier Wulfen," *Die Kärntner Landsmannschaft*, 158 (1968), 602-4. • *Österreich Biographisches Lexikon*: 2, 1290. • Pacher, W., "Franz Xaver Wulfen und die Anfänge der Naturbeschreibung der

Kärntens," published in: Baum, W., editor. *Kollegium, Lyzeum, Gymnasium. Vom "Collegium Sapientiae et Pietatis" zum Bundesgymnasium Völkermarkter Ring, Klagenfurt. Die Geschichte des ältesten Gymnasiums Österreichs*. Klagenfurt, Kärntner Druck- und Verlags, 1991. • Poggendorff: 2, col. 1374. • Pritzel, *Thesaurus Literaturae Botanicae*, 1871-3. • Sarjeant, *Geologists*, Suppl. 1, 1986: 2, 898. • WBI. • Wurzbach, *Biographisches Lexikon Österreich*, 1856-91: 58, 265-9 [biblio.].



ABHANDLUNG, 1785

# 5097. — German, 1785.

Xavier Wulfens | Abhandlung | vom | kärnthnerischen Bleyspate. | [ornament] | [double rule] | Wein, | in der Johann Paul Kraußischen Buchhandlung, 1785.

4<sup>o</sup>: [A]-T<sup>4</sup> )(4; 80 $\ell$ .; [1]-150, [10] p., 21 hand-colored plates. PAGE SIZE: 300 x 225 mm. uncut.

CONTENTS: [1-2], Title page, verso blank.; [3]-28, Introduction.; 29-150, Descriptions of figures on the plates.; [2 pgs], Blank.; [7 pgs], "Explicatio Figurarum."; [1 pg], Blank.; [At end], 21 hand-colored plates showing 46 figures.

PLATES: Each of the 21 engraved plates is hand-colored and shows from one to several examples of the lead ore specimens Wulfen was collecting in the area surrounding Klagenfurt, Austria. The first plate is labeled "Tab. I.", while the remainder are labeled "T. 2" to "T. 21." The artists signed only the first illustration: "Jo. Melling, Pinx. A. Amon sc." the remainder of the plates are unsigned. Descriptions of the figures occur in the text of the book.

RARE. Wulfen's *Abhandlung* is one of the eighteenth centuries finest examples of a book

containing hand-colored mineral illustrations. The many plates of this work, were probably all engraved by A. Anon [only the first is signed] from original paintings by Joseph Melling [see note below]. They each figure various specimens of the mineral then known as "gelbbleierz" [golden lead ore] which is the same mineral that in 1841 WILHELM HAIDINGER scientifically described and named "Wulfenite," in honor of its first researcher. However, Wulfen did not confine himself to routine descriptions of "gelbbleierz." He is among the first to observe what is now recognized as paragenesis—the sequential order in which one mineral is deposited after another. He also assigns exact localities to every specimen and distinguishes wulfenite from different localities by means of the specimens physical characteristics such as color, luster, and crystal form.

Reprint, 1990: Xavier Wulfens | Abhandlung | vom | kärnthnerischen Bleyspate. | [ornament] | [double rule] | Wein, | in der Johann Paul Kraußischen Buchhandlung, 1785. [1]-150 p., 21 colored plates. The plates are bound opposite the page in the text that describes the figures; therefore, plates occur facing pages 30, 36, 46, 52, 54, 60, 62, 66, 70, 76, 80, 86, 92, 98, 110, 116, 118, 126, 130, 138 and 146.

CONTENTS: [1-2], Title page, verso Text similar to: "Facsimile Reprint | by | Herbert P. Obodda | Short Hills, New Jersey, U.S.A. | August 20, 1990 | Copy Number One [-Twenty] | of a total of Twenty Copies."; [3]-28, Introduction.; 29-150, Descriptions of figures on the plates.

Numbered facsimile reprint photocopied on simulated hand-made paper by Herbert P. Obodda [see note below]. The plates are reproduced using color photocopy technology on the simulated paper as well. The edition was limited to 20 copies.

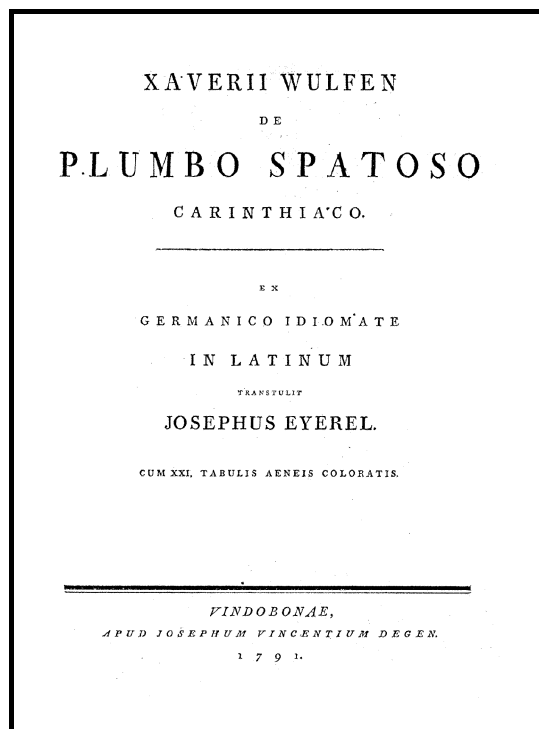
Joseph Melling. (BORN: St. AvoId, Lothr., Germany, 27 December 1724; DIED: Karlsruhe, Austria, 8 November 1764) *Austrian illustrator/engraver*. Melling learned his trade as a pupil of the Academie Royale in Paris. He is today chiefly remembered for the paintings of a religious nature that embellish the ceilings and alters of churches throughout southern Germany and Austria.

Herbert Paul Obodda. (BORN: New York City, New York, U.S.A., 1942; DIED: ) *American mineral dealer & book collector*. One of the premier mineral dealers of the late 20th century and early 21st century, Obodda secured and sold many important specimens to institutions and private collectors, most notably those species originating from Morocco, Afganistan and Pakistan. He is also known for the superb library of books and manuscripts related to the sciences of mineralogy, crystallography and mining that he built over several decades. In the opinion of the compiler, this is one of the most significant collections of this type of literature ever accumulated by a single individual.

REFERENCES: *Allgemeine Deutsche Bibliothek*: 78 no. 2, 452. • *Allgemeine Literatur-Zeitung*: 1 (1786), 634. • BL. • *Freilich Sale Catalog*: no. 564. • Gatterer, *Mineralogischen Literatur*, 1798-9: 2, 203. • LKG: XVI 172. • Meixner, *Mineralogischen Erforschung Kärntens*, 1951: [see pages 17-18]. (Melling) Thieme & Becker, *Allgemeines Lexikon*, 1907-50: 24, 366-7 [by K. Obser]. (Obodda) Personal communication [Herb Obodda, 1998].

5098. Latin transl., 1791: Xaverii Wulfen | De | Plumbo Spatoso | Carinthiaco. | [rule] | Ex | Germanico Idiomate | In Latinum | Transtulit | Josephus Eyerel. | Cum XXI. Tabulis Aeneis Coloratis. | [double rule] | Vindobonae, | Apud Josephum Vincetium Degen. | 1791.

4<sup>o</sup>: A-N<sup>4</sup> O<sup>2</sup>; 64 $\ell$ .; [1]-108 p., 21 hand-colored plates



DE PLUMBO SPATOSO CARINTHIACO, 1791.

(some folding). PAGE SIZE: 265 x 190 mm.

CONTENTS: [1-2], Title page, verso blank.; [3]-108, Text.

VERY SCARCE. Translation by Joseph Eyerel [see note below] of *Abhandlung vom kärnthnerischen Bleyspate* (Wien, 1785). In this edition, Wulfen's long introduction has been shortened by the translator. For illustrations, the work uses plates identical to those of the original edition, although in some cases the plates of this Latin edition have been either been folded or cropped to accommodate a smaller page size used in printing the text. This translation appears to have been published in a larger number of copies than the original 1785 edition because several copies of this translation are recorded in U.S. libraries while no copies of the German are listed.

**Joseph Eyerel.** (BORN: Kaiserheim, Schwaben, Austria, 1745; DIED: Vienna, Austria, 22 December 1821) *Austrian physician.* Eyerel established a medical practice in Vienna, where he became a friend and student to the famous Austrian physician Maximilian Stoll [1742-1787], to whose works he contributed commentary and editing. Eyerel translated many medical and natural history works from Latin, French and Italian into German.

REFERENCES: BL. • Brunet: 5, 1483. • *Freilich Sale Catalog*: no. 565. • Gatterer, *Mineralogischen Literatur*, 1798-9: 2, 203. • NUC: 676, 196-7. (Eyerel) ADB: 6, 458. • Hirsch, *Biographisches Lexikon*, 1884-8: 2, 453. • Wurzbach, *Biographisches Lexikon Österreich*, 1856-91: 4, 121.

**WÜLFING, Ernst Anton.** (BORN: Elberfeld, Rheinland, Germany, 27 November 1860; DIED: Bad Wörishofen, Bavaria, Germany, 17 December 1930) *German mineralogist & petrologist.*

Wülfing studied chemistry at Genève and at Heidelberg under Bunsen, from which he graduated in 1884. He turned his attention to mineralogy and

geology, studying at Greifswald and Vienna in 1887-8. He then became an assistant to H. Rosenbusch at Heidelberg. He then became successively professor at the University of Tübingen (1891-9), the Agricultural Academy at Hohenheim in Württemberg (1899-1904), the Technical High School at Danzig (1904-7), the University of Kiel (1907-8) and the University of Heidelberg (1908-1926). His research was concentrated on the optical properties of minerals and meteorites.

REFERENCES: *Centralblatt für Mineralogie*: Series A, 1931, 128-35. • DBA: II 1431, 265-271. • *Mineralogical Magazine*: 23 (1933), no. 141, p. 362, portrait. • Poggendorff: 4, 1672-3. • Sarjeant, *Geologists*, 1980: 3, 2469. • WBI.

**5099. — German, 1895** [First edition].

Tabellarische Uebersicht der einfachen Formen der 32 krystallographischen Symmetriegruppen zusammengestellt und gezeichnet. Stuttgart, E. Schweizerbart'sche Verlagshandlung (E. Koch), 1895.

4°: 11 p., one folded leaf, illus. Illustrations on 7 folded leaves, inserted.

RARE. A tabular overview of the important forms of the 32 crystallographic symmetry groups, collected and organized by Wülfing, who at the time was a privatdozent of mineralogy and petrology at the University of Tübingen. In some instances, he utilized optical techniques to determine the observed crystal forms.

REFERENCES: BL. • NUC. • *USGS Library Catalog*.

**5100. 2nd edition, 1914:** Die 32 kristallographischen Symmetrieklassen und ihre einfachen Formen | von | Dr. E.A. Wülfing | o. Professor der Mineralogie und Petrographie | an der Universität Heidelberg | [rule] | Zweite, gänzlich umgestaltete und erweiterte Auflage | der | Tabellarischen Übersicht der einfachen Formen | der 32 kristallographischen Symmetriegruppen | Mit 8 Tafeln und 260 Textfiguren | [rule] | Berlin | Verlag von Gebrüder Borntraeger | W35 Schöneberger Ufer 12a | 1914.

8°: 48 p., 260 text illus., 8 plates.

VERY SCARCE. This follow up edition, is an expanded study of the 32 crystallographic symmetry classes, together with a discussion of the various forms that have been observed. A separate appendix organizes the classes in eight tables.

REFERENCES: BL. • *Die Naturwissenschaften*: 2 (1914), no. 2, 919-20. • NUC.

**5101. — German, 1897.**

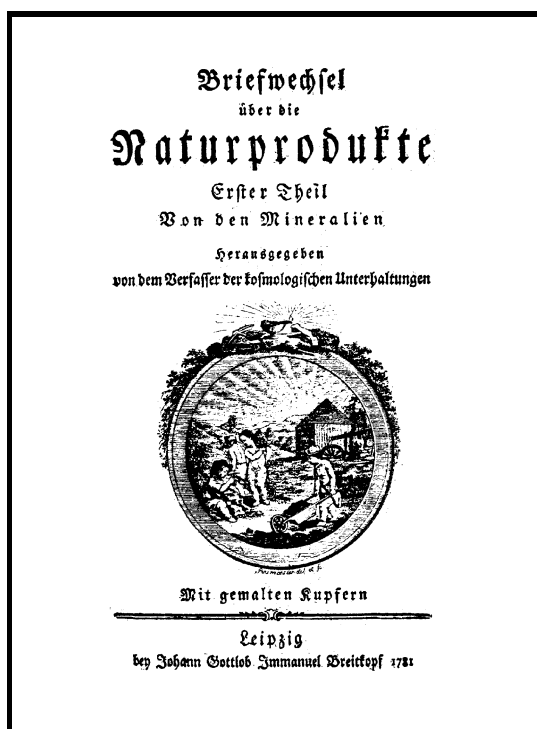
Die Meteoriten in sammlungen und ihre Literatur nebst versuch den tauschwert der Meteoriten zu bestimmen von Dr. E.A. Wülfing ... Tübingen, Verlag der H. Laupp'schen Buchhandlung, 1897.

8°: xiv, [2], 460, [1] p., tables.

VERY SCARCE. In 1893, Wülfing decided to bring Otto Buchner's *Die Meteoriten in Sammlungen* (Leipzig, 1863) tabulation of meteorite collections up to date. For this purpose, he sent out inquiries to 350 public and private collectors, requesting information on their specimens, especially their holdings and weights. Soon Wülfing received replies, but he delayed publication of the information in the hope that waiting would bring more complete data. He also conceived the idea of establishing a system of valuation for

specimens. As a first step he separated the meteorites into groups paralleling Brezina's classification, and began to calculate the total weight of each group. In 1897 Wülfing brought out his *Die Meteoriten in sammlungen und ihre Literatur* that identified 536 falls. He lists all known meteorites in alphabetical order, and provides the names of the collections that held specimens. He also presented a practical formula for determining an exchange value for specimens, that is fully described by Burke (1986).

REFERENCES: BL. • Burke, *Cosmic Debris*, 1986: p. 210-1. • NUC. • USGS Library Catalog.



BRIEFWECHSEL, 1781

**WÜNSCH, Christian Ernst.** (BORN: Hohenstein, Herrschaft Schönburg, Germany, 31 October 1744; DIED: Frankfurt an der Oder, Germany, 28 May 1828) *German physician & physicist.*

REFERENCES: ADB: 44, 317-20. • DBA: I 1396, 257-269; II 1431, 370. • Eitner, *Quellenlexikon*, 1959. • Gerber, *Historisch-biographisches Lexikon*, 1812-4. • Hamberger & Meusel, *Gelehrte Teutschland*, 1796-1834. • Poggendorff: 2, col. 1373. • WBI. • Wünsch, C.E., *Biographie meiner Jugend. Auch Bestätigung des Glaubens, dass Gottes Vorsehung über die Menschen waltet*. Frankfurt und Leipzig, 1817.

#### 5102. — German, 1781.

Briefwechsel | über die | Naturprodukte | Erster Theil | Von den Mineralien | Herausgegeben | von dem Verfasser der kosmologischen Unterhaltungen | [Circular vignette, showing angels working the earth.]

| Mit gemalten Kupfern | [ornate rule] | Leipzig | bey Johann Gottlob Emmanuel Breitkopf 1781.

8°:  $\pi^7$  A-Z<sup>8</sup> Aa-Pp<sup>8</sup>; 309 $\ell$ .; [14], [1]-602, [2] p., 16 hand-colored, folding engraved plates. PAGE SIZE: 155 x 92 mm.

CONTENTS: [2 pgs], Title page, verso blank.; [10 pgs], "Vorbericht."; [2 pgs], "Inhalt."; [1]-561, Text.; 562-582, "Erklärung der Kupfertafeln."; [583]-602, "Alphabetisches Verzeichniß | der | vornehmsten Sachen, die in diesem Theile | vorkommen."; [2 pgs], "Verbesserungen."

PLATES: The 16 hand-colored, folding, engraved plates are all signed "Capieux 1781." They are scattered throughout the volume and consist of the following: Tab. I (p. 56), quartz crystal groups. II (p. 92), Saxony topaz locality. III (p. 122), agates and stones. IV (p. 138), agate slices. V (p. 180), an outcrop of basalt. VI (p. 242), gold, pyrite, stibnite. VII (p. 310), cinnabar. VIII (p. 318), various mineral specimens. IX (p. 326), various mineral specimens. X (p. 338), gold and peacock ore. XI (p. 350), hematite and other iron minerals. XII (p. 368), proustite/parargyrite minerals. XIII (p. 374), gold specimens with a matrix. XIV (p. 396), cross-section of a furnace. XV (p. 460), view inside a mine. XVI (p. 542), geological cross-section.

RARE. Published anonymously but widely attributed to Wünsch, this is the only volume(?) published of a proposed series to illuminate science and natural history. Relying on the previous researches of numerous authors, it describes the mineral products of the earth in a series of letters covering the entire spectrum of mineralogical knowledge. Included are discussions of the ores and minerals of the various elements such as silica, magnesia, calcic, etc., as well as fuels, ores, gemstones, metallurgy, smelting, mining and fossils, etc. The color illustrations scattered throughout the volume show in crude, colorful renderings various mineral specimens, a panorama of the famous Schneckenstein topaz locality in Saxony, various gemstones, and the interior of caves.

REFERENCES: *Allgemeine Deutsche Bibliothek*: Supplement to 37, 480. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 250. • LKG: VI 84. • Sinkankas, *Gemology Bibliography*, 1993: no. ??.

**WURKO, Andreas Joseph.**

#### 5103. — Latin, 1777.

Dissertatio inauguralis chemico-medica De zinco quam annuente inclyta Facultate medica ... publicae disquisitioni submittit Andreas Joseph. Wurko ... die mensis Junii anno 1777. Viennae Austriae, Typis Josephi Gerold, Aulæ Imperialis Typographi, 1777.

8°: A-B<sup>8</sup> C<sup>2</sup>; 18 $\ell$ .; 33, [3] p.

VERY RARE. A study on the element zinc, including information on its mineral occurrences.

REFERENCES: BL: [B.243.(3.)]. • LKG: XVI 451.

**WURZER, Ferdinand.**

REFERENCES: Poggendorff: 2, cols. 1377-9.

#### 5104. — German, 1805.

Taschenbuch zur Bereisung des Siebengebirges und der benachbarten, zum Theil vulkanischen



## WYTTEBACH

Gegenden, von Ferdinand Wurzer ... Köln, Keil, XIII-1805.

12°: xxiv, 192 p.

RARE. A pocket guidebook to the Siebengebirge region of Hungary, with special attention directed to the geological features.

REFERENCES: BL: [726.b.5.]. • LKG: XIV 290.

**WYROUBOFF, Grigorij Nikolajewitsch.** (BORN: Moscow, Russia, 1 November 1843; DIED: Paris, France, December 1913) *Russian crystallographer.*

**REWORK COMMENTARY:** Wyrouboff was appointed professor of crystallography at the Collège de France in Paris in 1886.

He was accepted to the Alexandre College an encyclopaedic instruction, as well literary as scientific. After having courses of Medicine followed to the university of Moscow, it turns to positive Philosophy. But it is finally its taste for the science which carries it and will make him devote quarante-cinq years to research in Crystallography and Chemistry.

It is in 1866 that it publishes its first work on the colouring substances of the fluorite. Then it launches out in the study of the crystalline forms and the structure of the crystals, like their consequences on the physical properties. Passed main in the determination of the primitive shapes of the most complicated polyhedrons, it publishes a work entitled "crystallographic Calculations". It carries out a great number of crystallizations, seeking a relationship between the chemical composition and the crystalline form.

Isomorphism retient its attention, and about 1879 it disputes the general information of the law of Mitscherlich, then proposes to restrict the concept of isomorphism. The rotatory polarization of the light by the crystals gives also place to many research on behalf of Wyrouboff.

It is not only by its scientific work that it knew to be made appreciate its contemporaries, but also by its human qualities, looking after the casualties in 1870. It is made naturalize in 1889, year when its "Handbook of Crystallography is published". Become professor with the College of France his liberalism attracts attacks to him as well as sincere friendships. It éteind in December 1913 after a long disease.

REFERENCES: *Bulletin de la Société Française de Minéralogie*: 37 (1914), no. 2, 44-59, portait. • *ISIS*, 1913-65: 2, 641. • Poggendorff: 4, 1675 & 5, 1397. • Sarjeant, *Geologists*, 1980: 3, 2471.

### 5105. — French, 1889.

Manuel Pratique | De | Cristallographie | Par | G. Wyrouboff. | [ornament] | Paris, | Gauthier-Villars Et Fils, Imprimeurs-Libraires | Du Bureau Des Longitudes, De L'École Polytechnique, | Quai des Grands-Augustins, 55. | [rule] | 1889 | (Tous droits réservés.)

8°: [i]-xii, [1]-344 p., illus., 6 plates (showing crystal drawings, projections, and diagrams).

CONTENTS: [i-ii], Half title page, "Manuel Pratique | De | Cristallographie," verso blank.; [iii-iv], Title page, verso blank.; [v]-x, "Préface.;" [xi]-xii, "Table Des Matières.;" [1]-344, Text.; [At end], 6 plates.

VERY SCARCE. A practical manual giving the essentials of crystallographical science.

REFERENCES: Dana's 7th (Bibliography): 84.

**WYTTEBACH, Jacob Samuel.** (BORN: 1748; DIED: 1830) *Swiss theologian.*

Wytttenbach was a pastor in Bern, Switzerland.

REFERENCES: DBA: I 1400, 215-282. • Hamberger & Meusel, *Gelehrte Teutschland*, 1796-1834. • WBI.

### 5106. — German, 1774-5.

Beyträge zu Naturgeschichte des Schweizerlandes. Bern, Typographische Gesellschaft, 1774-5.

3 parts. [Part 1: 1774] 8°: viii, 101 p. [Part 2: 1775] 8°: xvi, 78 p. [Part 3: 1775] 8°: xviii, 183 p., 3 plates.

RARE. Wytttenbach, in this work, brings together information on the natural history of Switzerland. This volume contains three parts: 1. *Die Naturgeschichte Helvetiens in der alten Welt* (The natural history of Switzerland in the old world by Gottlieb Sigmund Gruner). 2. *Übersetzung der Reise der Herrn de Luc* (Account of a trip through the Eisgebirgen by Jean André de Luc). 3. *Gruners Anzeige der Schweitzerischen Mineralien* (Announcements of Swiss minerals by Gottlieb Sigmund Gruner).

REFERENCES: *Beckmann P.Ö.B.*: 6, p. 577 & 7, p. 137. • Beer, G.R. de., "Some letters from Jakob Samuel Wytttenbach to Sir James Edward Smith," *Annals of Science*, 6 (1949), no. 2, 105-114. • *Berlinische Sammlungen*: 10, p. 309-310. • BL: [572.e.6.]. • Cobres, *Deliciae Cobresianae*, 1782: 1, p. 261. • *Exhl. P.B.*: 2, p. 303. • *Katalog Bergakademie Freiberg*, 1879: p. 728 [IX. 958ab.]. • Studer, *Geschichte Geographie Schweiz*, 1863: p. 660-1.

### 5107. — German, 1777.

Anleitung für diejenigen, welche eine Reise durch die Eisberge im Grindelwalde machen wollen. Bern, Bey Wagner, Hoch-Obrigkeitlichen Buchdrucker, 1777.

8°: A<sup>8</sup> B<sup>4</sup>, 12ℓ.; iv, 20 p. RARE.

REFERENCES: BL: [no copy listed]. • LKG: XIV 480a\*.

### 5108. — French, 1787.

Instruction | Pour Les | Voyageurs | Qui Vont Voir | Les Glaciers & Les Alpes | Du | Canton de Berne. | [rule] | [ornament] | A Berne, | [double rule] | Dans La Librairie D'Emanuel Haller, | 1787.

8°: A-B<sup>8</sup> C<sup>4</sup>; 20ℓ.; [1]-40 p.

CONTENTS: [1-2], Title page, verso blank.; [3]-4, "Avant-Propos."—signed J.S. Wytttenbach.; [5]-40, Text.

RARE. This guidebook gives descriptions of the Canton of Berne in the Swiss Alps, including some peripheral information on the mineralogy of the area. Although published anonymously, its preface is signed J.S. Wytttenbach, Minist. du St. Esp.

REFERENCES: LKG: XIV 480b\*\*.

### Y ARANA, Salvador Calderón.

See: Calderón Y Arana, Salvador.

### Y CISTERICH, Cornelio August Severius Doelter.

See: Doelter (cisterich Y De La Torre), Cornelio August Severius.

**YATES, Lorenzo Gordin.** (BORN: England, 8 January 1837; DIED: Santa Barbara, California, U.S.A., 1909) *English dentist, naturalist & author.*

Emigrated to America in 1853. Yates began practice of medicine in St. Louis, Missouri, and in 1863 he moved to California. There he became head of scientific department of the Froebel Institute of Los Angeles. He also cataloged and prepared a "guide" for Golden Gate Park Museum of San Francisco. President of Santa Barbara Society of Natural History and a member of the Geological Society of America. He formed several collections during his lifetime. The first was sold to Wabash College, Indiana. Another which included 6000 specimens of fossils was used in instruction at Stanford University.

REFERENCES: ABA: I 1797, 141-143. • *Herringshaw's National Library of American Biography*. • WBI. • *Who Was Who in America*: 1, ??, • *Who's Who in America, 1899-1909*.

**5109. — English, 1886** [Collection catalog].

Catalogue of Minerals in Lorenzo G. Yates' Collection, Santa Barbara, California. Santa Barbara, Calif., 1886.

8°: [2], 71 p. RARE.

**Related work:** Catalogue of Fossils in Lorenzo G. Yates' collection, Santa Barbara, Cal. Santa Barbara, Cal., [L.G. Yates?], 1886. (8°: 36 p.; DSI QE716 .Y32 1886).

REFERENCES: NUC.

**YOUNG, George Albert.** (BORN: 1878; DIED: 1947) *Canadian geologist & mineralogist.*

Young was an economic and structural geologist. He worked in the Geological Survey of Canada from 1904, rising to the position of Chief Geologist in 1924. He did notable work in the minerals and geology of the Precambrian Shield.

REFERENCES: ABA: I 1800, 399; II 693, 440. • Alcock, F.J., "Retirement of G.A. Young, chief geologist, Geological Survey of Canada," *Canadian Institute of Mining and Metallurgy, Bulletin*, 34 (1943), 240-1. • *American Men of Science*, 6th edition (1938). • Sarjeant, *Geologists*, 1980: 3, 2476-7. • *Transactions of the Royal Society of Canada*: 42 (1948), 125-6, portrait. • WBI.

**5110. — English, 1909** [First edition].

Canada | Department Of Mines | Geological Survey Branch. | [...2 lines of names...] | A Descriptive Sketch | Of The | Geology, And Economic Minerals | Of | Canada. | By | G.A. Young | [rule] | Introduction | By | R.W. Brock, | Director of Geological Survey. | [ornament] | Ottawa | Government Printing Bureau. | 1909 | No. 1085.

8°: [1]-151 p., 82 photographic plates. PAGE SIZE: 248 x 164 mm.

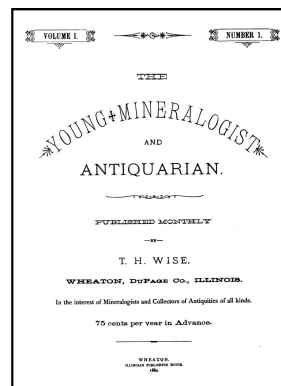
CONTENTS: [1-2], Title page, verso blank.; [3], "Contents."; [4], Blank.; [5-6], "Illustrations."; Frontispiece: "Chaudière Falls, Ottawa."; [1]-22, "... Part I. | Introduction."—by R.W. Brock.; [Plate 2]; 23-146, "Part II. | A Descriptive Sketch | Of The | Geology, And Economic Minerals | Of | Canada | By | G.A. Young."; [147]-151, "Index."; [1 pg], Blank.; [1 pg], "... Publications | Of | Special Economic Interest."; [1 pg], Blank.

SCARCE. With an introduction written by R.W. Brock. This work summarizes the geological investigations and mineral developments that have taken place since the time of the founding of the Geological Survey of Canada.

**Second edition, 1926:** *Geology and Economic Minerals of Canada*. Ottawa, Government Printing Bureau 1926. c250 p., illus., maps.

**Third edition, 1947:** *Geology and Economic Minerals of Canada (Third Edition)*. Ottawa, ON, Canada, Mines and Geology Branch, Canada Department of Mines and Resources, 1947. 357 p., illus.

REFERENCES: NUC.



**YOUNG MINERALOGIST.**

**5111. — English, 1884-5** [Periodical].

The Young Mineralogist and Antiquarian. Published monthly by T.H. Wise. Wheaton, Illinois, 1884-5.†

2 parts [?].

EXTREMELY RARE. A very early American periodical featuring minerals and archaeological as its principal theme. Why such a journal appeared in Wheaton, Illinois is unclear, but its separation from the principal publishing and mineralogical community of the east coast probably contributed to its short life of perhaps 18 months.

REFERENCES: NUC. • *Union List of Serials*.

**ZABARELLA, Jacopo.** (BORN: 1533; DIED: 1589) *Italian naturalist.*

Zabarella was a professor of natural philosophy at the University of Padua, and was an ambassador to Venice on several occasions.

**5112. — Latin, 1607.**

Jacobi Zabarellæ Patavini de rebus naturalibus libri XXX. Quibus quæstiones, quæ ab Aristotelis interpretibus hodie tractati solent, accurate discutuntur cum triplici indices uno librorum, altero capitum omnium librorum, tertio rerum omnium Francofurti, Sumptibus Lazari Zetzneri Bibliop, 1607.

4°: [14] p., 1076 cols., [30] p. Main text printed in double columns. Cuts: title vignette, initials, head and tail piece.

RARE. A collection of short treatises on a variety of topics dealing with natural philosophy. It had a great influence in its day, establishing the author as one of the great authorities on Aristotele.

## ZACHARIAS

REFERENCES: BL. • Hoover Collection: no. 902.

**ZACAIRE (Zeccaire), Denis.** (BORN: Guienne, France, 1510; DIED: Cologne, Germany, 1556) *French alchemist*.

Zacaire was an educated man who was an alchemist, who studied law at Toulouse, went to Paris and made the acquaintance of the alchemists there. He married, traveled throughout France, Switzerland and Germany, and was murdered by his servant in his sleep.

REFERENCES: Ferguson, *Bibliotheca Chemica*, 1906: 2, 5621-2. • Poggendorff: 2, col. 1398-9.

**5113. — French, 1568** [First edition].

Opusculum tres-excellent de la vraye philosophie des metaulx, traictant de l'augmentation & perfection d'iceulx, avec advertissement d'éviter les folles despences que se font ordinairement par faulte de vraye science; par maistre D. Zecaire ... Avec le traicté de venerable docteur allemand messiere Bernard Conte de la Marche Trevisans sur le meme subject. Anvers, Guillaume Silvius, 1568.

8°: A-M<sup>8</sup>; 96<sup>l.</sup>; [1]-191, [1] p. VERY SCARCE.

Facsimile reprint, 1990: *Opusculum très excellent de la vraye philosophie naturelle des metaulx traictant de l'augmentation & perfection d'iceulx, avec advertissement d'éviter les folles despences qui se font ordinairement par faulte de vraye science par D. Zecaire*. [Paris], Editions La table d'Emeraude, 1990. xvi, 116 p.

REFERENCES: Hoover Collection: no. 903. • NLM 16th Century Books (Durling): no. 4781. • NUC: 680, 591-2 [NZ 0001690]. • Thorndike, *History of Magic*, 1923-58: 3, 617.

**5114. 2nd edition, 1574:** Opusculum tres-excellent, de la vraye philosophie naturelle des Metaulx, traictant de l'augmentation & perfection d'iceulx, Avec advertissement d'éviter les folles despences qui se font ordinairement par faulte de vraye science ... Avec le traicté de venerable Docteur Allemand Messire Bernard Conte de la Marche Trevisane sur le mesme subject. Lyon, B. Rigaud, 1574.

8°: A-R<sup>8</sup> S<sup>6</sup>; 142<sup>l.</sup>; [1]-280, [3] p. Errors in pagination. VERY SCARCE.

REFERENCES: Ferguson, *Bibliotheca Chemica*, 1906: 2, 562. • NUC: 680, 591-2 [NZ 0001691]. • Wellcome Catalog (Books): 1, no. 6786.

**5115. 3rd edition, 1612:** Opusculum tres-excellent, de la vraye philosophie naturelle des metaulx. Traictant de l'augmentation et perfection d'iceulx. Avec un advertissement d'éviter les folles despences qui se font par faulte de vraye science ... Plus le traicté de M. Bernard Allemand compte de la Marche Trevisane. Dernière édition reueu et corrigé de nouveau. Lyon, Pierre Rigaud, 1612.

8°: [1]-280, [3] p.

VERY SCARCE. Bernardus Trevisanus.

REFERENCES: NUC: 680, 591-2 [NZ 0001693].

### German editions

**5116. German transl., 1724:** Die natürliche Philosophia, von verwandlung der Metallen in Gold und Silber, durch das allerhöchste Geheimniss, welches genennet wird der Lapis Philosophorum, wie solchen der Weltberühmte Philosophus, Herr Dionysius Zacharias ... würcklich selbst gemacht, und dessen zeithero sehr rar gewesens tractätgen um ihrer fürtreffdeutsche übersetzt worden. Dresden und Leipzig, Gottfried Leschen, 1724.

[16], [17]-140 p. Page 79 incorrectly numbered 76. Frontispiece is the Mons Philosophorum. VERY SCARCE.

REFERENCES: NUC: 680, 591-2 [NZ 0001689].

**5117. 1773:** Von der natürlichen Philosophia und Verwandlung der Metallen in Gold und Silber, durch das höchste natürliche Geheimniss und Kunststück, so man den Lapidem Philosophorum nennet, drey Tractate, erstlich in französischer Sprache beschrieben, durch den Hochgelehrten Herrn Dionysium Zacharium, einen französischen Edelmann, und der Rechten Doctorem, welcher Anno 1550. den Lapidem selbst, wie er meldet, gemacht; Jetzund aber allen kunstliebenden Deutschen zur Warnung und Anleitung, auf den rechten einigen Weg, die Metallen zu verwandeln, in deutsche Sprach gebracht, und mit kurzen Summarien erkläret, durch M. Georgium Forbergern, von der Mitweide aus Meissen. Frankfurt und Leipzig, bey Johann Paul Krauss, 1773.

8°: [1]-135, [1] p.

VERY SCARCE. Edited by Georg Forberg.

REFERENCES: Ferguson, *Bibliotheca Chemica*, 1906: 2, 561. • NUC: 680, 591-2 [NZ 0001697].

**ZACHARIAS, Dionysius.**

See: **Zacaire (zeccaire), Denis.**

**ZAENGERLE, Max.** (BORN: Kempten, Germany, 28 January 1832; DIED: Munich, Germany, November 1903) *German chemist & mineralogist*.

Studied from 1856 chemistry and natural history at the University of Munich. Became instructor at the Realschule in Bamberg, followed by an appointment as rector of the Realschule in Landau, 1859. He was subsequently appointed rector at the Realschule in Lindau. In 1867 he became professor at the gymnasium in Munich. Received his Ph.D. from the University of Leipzig, 1864.

REFERENCES: Poggendorff: 4, 1679.

**5118. — German, 1873** [First edition].

Lehrbuch der Mineralogie unter Zugrundelegung der neueren Ansichten in der Chemie für den Unterricht an technischen Lehranstalten, Realschulen und Gymnasien bearbeitet von Max Zaengerle. Mit 209... Holzstichen und einer... Tafel in Farbendruck. Braunschweig, Friedrich Bieweg und Sohn, 1873.

8°: viii, 160 p., 209 illus., plates. SCARCE.

REFERENCES: NUC.

**5119. 2nd edition, 1876:** Lehrbuch der Mineralogie unter Zugrundelegung der neueren Ansichten in der Chemie für den Unterricht an technischen Lehranstalten, Realschulen und Gymnasien mit 205 in den Text eingedr. Holzstichen und einer geognostischen Tafel in Farbendruck bearb. von Max Zaengerle. 2., verb. Aufl. Braunschweig, Vieweg, 1876.

8°: viii, 166 p., one color plate, illus. SCARCE.

REFERENCES: BL: [7106.bb.14.].

**5120. 4th edition, 1884:** Lehrbuch der Mineralogie unter Zugrundelegung der neueren Ansichten in der Chemie für den Unterricht an technischen Lehranstalten, Realschulen und Gymnasien bearbeitet von Dr. Max Zaengerle ... 4. ed. verbesserte Aufl. Braunschweig, Friedrich Vieweg und, 1884.

8°: x, 182 p., one plate, illus. SCARCE.

REFERENCES: NUC.

**5121. 4th edition, 1884:** Lehrbuch der Mineralogie unter Zugrundelegung der neueren Ansichten in der Chemie. Vierte Auflage. Braunschweig, 1884.

8°: x, 182 p., one plate (colored), illus. SCARCE.

REFERENCES: BMC: 5, 2378 [wanting].

**5122. — German, 1882.**

Grundriß der Chemie und Mineralogie. Nach den neuesten Ansichten der Wissenschaften, ... Theil I. Anorganische Chemie und Mineralogie. Braunschweig, 1882.

8°: xi, 365 p., 2 tables, one plate (colored), illus.

SCARCE.

REFERENCES: BMC: 5, 2378.

**ZALLINGER ZUM THURN, Franz Seraph.** (BORN: Botzen, Austria, 14 February 1743; DIED: Innsbruck, Austria, 2 October 1828) *Austrian Jesuit & naturalist.*

Zallinger was a Jesuit and a professor of physics at the Lyceum in Innsbruck.

REFERENCES: DBA: I 1402, 335-336; 1402, 354-359; II 1439, 34-35. • Hamberger & Meusel, *Gelehrte Teutschland*, 1796-1834. • Poggendorff: 1, col. 1391. • WBI. • Wurzbach, *Biographisches Lexikon Österreich*, 1856-91. • Zallinger zum Thurn, F.S.v., *Innsbrucker meteorologische Beobachtungen ... mit einer Uebersicht derselben. ... Nach des Verfassers Tode mit einer Biographie desselben ... (Mit einem Anhang biographischer Nachrichten von seinen beiden Brüdern Jakob und Johann Baptist und von ihrem Verwandten J. von Zallinger.)*. Innsbruck, 1833. [BL: 8755.d.35.].

**5123. — German, 1779.**

Abhandlung | von der | Elektricität | des | in Tyrol gefundenen | Turmalins | durch | Franz Zallinger zum Thurn Priester | [...4 lines of titles and memberships...] | nebst den | Sätzen | aus der ganzen Naturlehre, | nach welchen | die Herren | Franz von Mayrl von Bozen, | Anton Hofer von Innsbruck, Alumnus in dem | Hause des heil. Nikolaus, | auf der k.k. Universität im August geprüset | werden. | [ornate rule] | Mit Erlaubniß der Obern. | Gedruckt allda in der k.k. Hofbuchdruckerey | mit Trattnerischen Schriften. 1779.

8°: 67 p., one plate.

VERY RARE. Presents observations and the results of experiments performed by the author dealing with the pyroelectrical property of tourmalines found in the Tyrol mountains of Austria.

REFERENCES: BL: [973.b.17.]. • Gatterer, *Mineralogischen Literatur*, 1798-9: 2, 63. • *Gothäische gelehrte Zeitungen*: 1781, p. 613. • Lang, *Sourcebook of Pyroelectricity*, 1974: [not mentioned]. • LKG: XVI 409.

**ZAMBONINI, Ferruccio.** (BORN: Rome, Italy, 17 December 1880; DIED: Naples, Italy, 12 January 1932) *Italian mineralogist & volcanologist.*

Zambonini was successively professor of mineralogy at the Universities of Sassari (1909-10), Palermo, Sicily (1910-13) and Torino (1913-22), before becoming professor of general chemistry at the University of Naples. He named 30 mineral species and varieties. and studied the isomorphism of complex compounds and rare earths and worked especially on Vesuvius and its mineralogy.

REFERENCES: ABI: II 678, 369-370. • *Reale Accademia Scienze di Torino, Atti. Classe Scienze Fisiche e Matematiche*: 67 (1932), 207-16. • *Atti Accad. naz. Lincei, 6th Series*: 6th Series, 15 (1932), 767-76, portrait. • DSB: 14, 587-9 [by G. Carobbi]. • *Mineralogical Magazine*: 23 (1933), no. 141, 362-3, portrait [by L.J. Spencer]. • Poggendorff: 6, 2951-3. • *Rendiconti dell' Accademia delle scienze fisiche e matematiche*:

3 (1933), 8-19, portrait. • Sarjeant, *Geologists*, 1980: 3, 2479-80. • Scherillo, *Storia del 'Real Museo Mineralogico'*, 1965. • WBI. • *Zeitschrift für Vulkanologie*: 14 (1931-2), 179-83, portrait.

Abhandlungen zur Kristallographie ... Herausgegeben von F. Zambonini (Leipzig, 1906).

See: Sella, Quintino.

**5124. — Italian, 1910 [First edition].**

Ferruccio Zambonini | [rule] | Mineralogia Vesuviana | Opera Premiata dalla R. Accademia delle Scienze Fis. E Mat. di Napoli | Nell'Adunanza del di 2 gennaio 1910 | [ornament] | Napoli | Tipografia Della R. Accademia Delle Scienze Fisiche e Matematiche | diretta da E. De Rubertis fu Michele | [rule] | 1910.

4°: [4], [1]-368 p., diagrs., index.

CONTENTS: [2 pgs], Title page, verso "Memoria estratta dal vol. XIV, Serie 2<sup>a</sup>, No 7, degli Atti della R. Accademia ..."; [1 pg], "Alla | Memoria di mia Figlia | Lidia."; [1 pg], Blank.; [1]-359, Text.; [360], "Errata-Corrige."; [361]-363, "Indice."; [364], Blank.; [365]-368, "Indice Alfabetico dei Minerali."

VERY SCARCE. Published as, *Memoria estratta dal Vol. XIV, Ser. 2a, No. 7, degli Atti della R. Accademia delle scienze fis. e mat. di Napoli*, this is an outstanding topographical mineralogy, giving in this edition and the expanded second edition [which see next entry], the best description of the various mineral species found at Mount Vesuvius in Italy. The text gives an overview of the volcano, its history and its geology, followed by a detailed descriptive list of minerals found on its slopes. To verify identification, Zambonini preformed chemical analysis in his descriptions.

**Appendix, 1912:** *Appendice alla Mineralogia Vesuviana ... Ferruccio Zambonini*. Napoli, Tipografia della R. Accademia delle Scienze Fisiche e Matematiche, 1912. 4°: [4], 51, [1] p. (first 2 p. and last p. blank), illus. Errata, p. 51. Includes bibliographical references.

**5125. 2nd edition, 1934:** Ferruccio Zambonini | Mineralogia Vesuviana | II Edizione | A Cura Di | Emanuele Quercigh | [ornament] | Napoli | S.I.E.M.— Stab. Industrie Editoriali Meridion Ali | Tipografia Della R. Accademia Delle Scienze Fis. E Matem. | S. Giovanni Maggiore Pignatelli, 2 | 1934-XIII.

4°: [1]-463, [1] p., index. PAGE SIZE: 356 x 252 mm.

CONTENTS: [1-2], Half title page, "Mineralogia Vesuviana," verso "Supplemento al volume XX, Serie 2<sup>a</sup> | degli Atti della R. Accademia delle Scienze fisiche e matematiche di Napoli."; [3-4], Title page, verso blank.; [5], "Prefazione Alla II Edizione."; [6], Blank.; [7]-9, "Prefazione Alla I Edizione."; [10], Blank.; [11]-455, Text.; [456], "Aggiunte."; [457]-463, "Indice Alfabetico Dei Minerali."; [1 pg], Blank.

VERY SCARCE. Edited and completed by Emanuele Vittorio Quercigh [see note below]. An update to the important first edition describing the mineralogy of volcano Vesuvius near Naples, Italy.

**Emanuele Vittorio Quercigh.** (BORN: 1885; DIED: after 1931) *Italian mineralogist.*

REFERENCES: Dana's 7th (Bibliography): 84. (Quercigh) ABI: II 491, 94. • WBI.

**ZANNICHELLI, Gian Jacopo.** (BORN: 1695; DIED: 1759) *Italian physican?*

Son of Giovanni Girolamo Zannichelli.

REFERENCES: ABI: I 1011, 234-247. • WBI.

# ZANNICHELLI

## 5126. — Italian, 1737.

Considerazioni di Giovan-Jacopo Zannichelli intorno a una pioggia di terra caduta nel golfo di Venezia, e sopra l'incendio del Vesuvio. Venezia, Presso Antonio Bortoli, 1737.

4°: A-D<sup>4</sup>; 16ℓ.; 31, [1] p.

RARE. A discussion on the internal workings of Mount Vesuvius, Europe's most active volcano.

REFERENCES: BL: [664.d.24.]. • LKG: XIV 590.

**ZANNICHELLI, Giovanni Girolamo.** (BORN: Venice, Italy, April 1662; DIED: Modena, Italy, 11 January 1729) *Italian physician & apothecary.*

Beginning in 1686, Zannichelli built a successful apothecary business in Venice, and in 1702, he was awarded a medical degree. He made many trips to explore the natural history around the Adriatic Sea, building an important natural history cabinet in Venice.

REFERENCES: ABI: I 1011, 234-247. • *Biographie Universelle.* • Dupre, F., *Elogio storico di G. Girolamo Zannichelli farmacista.* Venezia, Pasquali e Curti, 1816. 29 p. [NLM: WZ 100 Z32D 1816]. • Jöcher, *Gelehrten-Lexikon*, 1750-51: 4, 2150-1. • Poggendorff: 2, cols. 1392-3. • WBI.

## 5127. — Latin, 1720 [Collection catalog].

Variorum Fossilium Apparatus ex Collectaneis J. H. Zannichelli ... [Venetiis, 1720].

4°: [1]-38 p. VERY SCARCE.

REFERENCES: BL: [B.260.(12.)]. • Gatterer, *Mineralogischen Literatur*, 1798-9: 2, 207.

## 5128. — Latin, 1721.

De Lithographia Duorum Montium Veronensium unius nempe vulgo dicti di Boniolo & Alterius di Zoppica ... patri Philippo Bonnanni ... Epistola Joannis Hieronymi Zannichelli ... Venetiis, Corona, 1721.

4°: [1]-31, [1] p., illus. VERY SCARCE.

REFERENCES: BL: [B.238.(1.)]. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 119. • LKG: XIV 630.

## 5129. — Latin, 1726.

Ex Naturæ | Gazophylacio | Penes | Joannem Hieronymum | Zannichelli. Venetiis. | Index Primus | Quo Fossilia Figurata | recensentur. | [ornament] | Venetiis, MDCCXXXVI. | Typis Antonii Bortoli. | Superiorum Permissu.

4°: A-I<sup>4</sup>; 36ℓ.; [1]-71, [1] p.

CONTENTS: [1-2], Title page, verso blank.; 3-71, Text.; [1 pg], Blank.

VERY RARE. The text gives a listing of the specimens contained in Zannichelli's museum.

REFERENCES: BL: [953.e.1.]. • LKG: XVII 24. • Murray, *Museums*, 1904: 3, 286.

## 5130. — Latin, 1736 [Collection catalog].

Enumeratio | Rerum Naturalium | Quæ | In Musæo Zannichelliano | Asservantur. | [ornament] | Venetiis MDCCXXXVI. | Typis Antonii Bortoli. | Superiorum Permissu.

4°: [1]-126 p.

# EX NATURÆ

## GAZOPHYLACIO

### PENES

## IOANNEM HIERONYMUM

## ZANNICHELLI. VENETIIS.

### INDEX PRIMUS

## Quo Fossilia Figurata recensentur.



## VENETIIS, MDCCXXXVI.

Typis Antonii Bortoli.

SUPERIORUM PERMISSU.

EX NATURÆ GAZOPHYLACIO, 1726

CONTENTS: [1-2], Title page, verso blank.; [3]-[8], Dedication, dated April 1736.; [9]-126, Text.

RARE. Edited by his son Giovanni Jacopo Zannichelli. An interesting list of objects contained in Zannichelli's Museum in Venice. The text is divided into three parts: 1. *Marina Corpora* (plants and animals; p. 9-29), 2. *Fossilia Figurata* (fossils and figured stones; p. 30-96), and 3. Minerals (p. 97-126).

REFERENCES: BL: [956.g.3. & 34.c.18.(1.)]. • Cobres, *Deliciæ Cobresianæ*, 1782: 1, p. 120. • Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 280. • Haller, *Bibliotheca Botanica*, 1771-2: p. 288. • Murray, *Museums*, 1904: 3, 286. • Pritzel, *Thesaurus Literaturæ Botanicae*, 1871-3: no. 10454.

## 5131. — Latin, 1713 [First edition].

De Ferro ejusque Nivis Præparatione Dissertatio Physico-Chymica, in qua varia de ipso Metallo Explicantur a Jonne Hieronymo Zannichelli. Venetiis, Andr. Poleti, 1713.

8°: [16], 79 p., frontispiece (Hercules slaying the Hydra), 3 plates (one folding).

VERY SCARCE. Zannichelli provides here a description of one of his distillations 'Neige de Fer' (snow of iron), as a miraculous remedy. Iron is also treated in general, including mineralogical sources, metallurgy and other medical preparations.

REFERENCES: Duveen, *Bibliotheca Alchemica et Chemica*, 1965: p. 631.

**5132. 2nd edition, 1719:** De Ferro ejusque Nivis Præparatione Dissertatio in qua varia de ipso Metallo Explicantur a Jonne Hieronymo Zannichelli. Venetiis, 1719.

4°: [4], [1]-46 p., frontispiece, folding plate, title vignette.

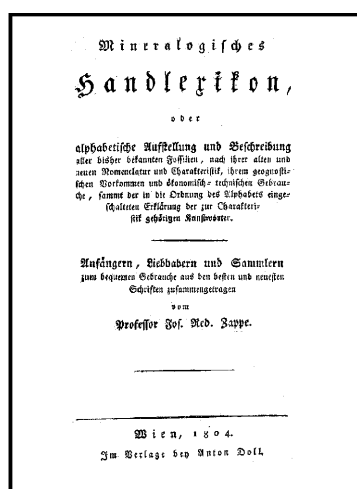
VERY SCARCE. Deals mostly with the medicinal uses of crystallized salts of iron. It also contains the earliest illustration of a dendritic crystal of the metal itself.

REFERENCES: Gatterer, *Mineralogischen Literatur*, 1798-9. • Hoover Collection: no. 904.

**ZAPPE, Joseph Maria Redemptus.** (BORN: Friedland, Bohemia, 9 December 1751; DIED: Vienna, Austria, after 1817) *Austrian Carmelite monk.*

Successively held instructing positions at Linz, Austria (1777), Prague (1780-87), Komotau and Vienna. He became director of studies at the Gymnasium of Zamość in Poland, 1804-10. He spent his last years in Vienna.

REFERENCES: DBA: I 1403, 367-374; II 1439, 413. • Hamberger & Meusel, *Gelehrte Teutschland*, 1796-1834. • Poggendorff: 2, col. 1397. • WBI. • Wurzbach, *Biographisches Lexikon Österreich*, 1856-91.



HANDEXIKON, 1804

**5133. — German, 1804** [First edition].

Mineralogisches | Handlexikon, | oder | alphabetische Aufstellung und Beschreibung | aller bisher bekannten Fossilien, nach ihrer alten und | neuen Nomenclatur und Charakteristik, ihrem geognosti= | schen Vorkommen und ökonomisch=technischen Gebran= | che, sammt der in die Ordnung des Alphabets einge= | stik gehörigen Kunstwörter. | [tapered rule] Anfängern, Leihhabern und Sammlern | zum bequemen Gebrauche aus den besten und neuesten | Schriften zusammengetragen | vom | Professor Jos. Red. Zappe. | [tapered rule] | [tapered rule] | Wien, 1804. | Im Verlags bey Anton Doll.

8°: [i]-xvi, [1]-586 (i.e., 568), [4] p.

VERY SCARCE. First printing of an important mineralogical dictionary containing everything one might want to know about minerals in 1804. The entries which are alphabetically arranged include listings for all recognized mineral species, which include listings of the various nomenclatures, characteristics, localities, economic

and physical properties, associations, chemistry, and uses. The work was written for the intended audience of the beginning mineralogist, collector, knowledgeable amateur, expert, or miner, and consequently contains a great deal of information from scattered sources.

REFERENCES: BL: [726.f.22.]. • LKG: VIII 14. • NUC: 681, 626. • Ward & Carozzi, *Geology Emerging*, 1984: no. 2375.

**5134. 2nd edition, 1817:** Mineralogisches | Hand = Lexicon. | Oder: | Alphabetische | Aufstellung und Beschreibung | aller bisher bekannten | Fossilien, | nach ihrer | alten und neuen Nomenclatur und Charakteristik, nach ihrem geogno- | stischen Vorkommen und technisch = ökonomischen Gebrauche, sammt der | in die Ordnung des Alphabets eingeschalteten Kennzeichenlehre und vielen | aus der Chemie und Bergmannssprache ausgehobenen nöthigen | und nützlichen und gequemen Gebrauche verfasst, | von | Joseph Redemt Zappe, | [...2 lines of title and memberships...] | [ornate rule] | Zweyte, verbesserte; vermehrte und ganz neu verfaßte Auflage. | Erster Band. | [ornate rule] | Wien 1817, | bey Carl Ferdinand Beck.

3 vols. [VOL 1] 8°: A-Gg<sup>8</sup>; 240<sup>l</sup>.; [1]-480 p. [VOL 2] 8°: A-U<sup>8</sup> X<sup>4</sup> Y<sup>1</sup>; 165<sup>l</sup>.; [1]-329, [1] p. [VOL 3] 8°: A-U<sup>8</sup> X<sup>4</sup>; 164<sup>l</sup>.; [1]-327, [1] p. PAGE SIZE: 215 x 136 mm.

CONTENTS: [Vol 1] [1-2], Title page, verso blank.; [3]-8, "Vorrede"—dated January 1817.; [9]-480, Text.

[Vol 2] [1-2], Title page, verso blank.; [3]-329, Text.

[Vol 3] [1-2], Title page, verso blank.; [3]-322, Text.; [323]-327, Errata.; [1 pg], Publisher's list.

VERY SCARCE. This very much expanded second edition of Zappe's *Hand-Lexicon*, follows the format of the 1804 printing. However, due to the expansion of the knowledge of minerals during the early nineteenth century, the text is considerably longer, with the inclusions of many new entries. These entries were obtained by the author by searching comprehensively the old and new literature, including textbooks and periodical publications in search of mineralogical nuggets. Zappe has also expanded upon the nomenclature of the species listed, providing historical citations and information regarding the older minerals.

REFERENCES: BL: [no copy listed]. • BMC: 5, 2382. • NUC: 681, 626. • Partsch, *Katalog der Bibliothek*, 1851: no. 139.

**ZAUSCHNER, Johann Baptist Joseph.**

REFERENCES: DBA: I 1404, 308-315. • Meusel, *Verstorbenen Teutschen Schriftsteller*, 1802-16. • Poggendorff: 2, col. 1398. • WBI. • Wurzbach, *Biographisches Lexikon Österreich*, 1856-91.

**5135. — Latin, 1768** [Dissertation].

Joannis Baptistæ Josephi Zauschner ... Dissertatio de sale a mineralogis haud descripto, opera ejes invento, eruditis communicando ex occasione acidularum ad Pragare recens ab eodem detactarum, a loco Na wenecku Coronariarum, a perillustribus dominis possessoribus Ziegerinarum nomine insignitarum. Pragæ: typis Joannis Josephi Clauser, 1768.

4°: [16], 183, [1] p., title vignette.

VERY SCARCE. Zieger's salt.

REFERENCES: Gatterer, *Mineralogischen Literatur*, 1798-9: 1, 70. • *Göttingische gelehrte Anzeigen*: 1770, p. 415. • NUC: 682, 68. • Ward & Carozzi, *Geology Emerging*, 1984: no. 2376.

**5136. — Latin, 1786.**

Museum Naturæ Pragense. Pragæ, 1786.

8°: VERY SCARCE.

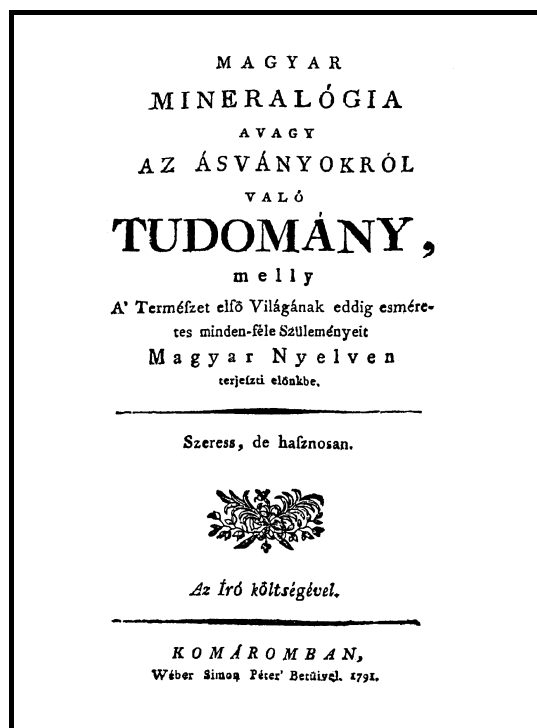
REFERENCES: LKG: XIV 73.

## ZDZITOWIECKI

**ZAY, Sámuel.** (BORN: Komárom, Hungary, 10 May 1753; DIED: Tata, Hungary, 9 April 1812) *Hungarian mineralogist.*

Zay Sámuel (18. sz.): orvosdoktor. Okleveletét 1788-ban a pesti egy-en nyerte. 1794-ig Kecskemét, 1795-től Komárom vm. tisztiorsvosa volt. Az orvosi tudományok mellett Bsvnyttannal is foglalkozott. F. m. Magyar mineralogia (Komárom, 1791); Falusi orvospap vagy oly orvosi útmutatás (Pozsony, 1810). Irod. Koch Sándor: A magyar Bsvnyttan története (Bp., 1952).

REFERENCES: Hála, J., T. Németh and A. Terbócs, "Zay Sámuel élete és munkássága," *Földtani Közlemények*, 128 (1998), 629-46. • Magyar Életrajzi Lexikon: 2, 1066. • Papp, Magyar Topografikus, 2002: 419.



MAGYAR MINERALÓGIA, 1791

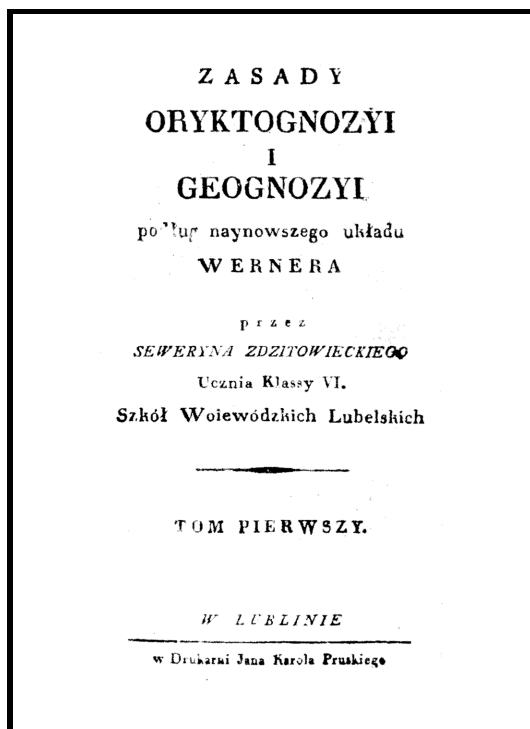
### 5137. — Hungarian, 1791.

Magyar | Mineralógia | Avagy | Az Ásványokról | Való | Tudomány, | melly | A' Terészet első Világának eddig esmére- | tes minden-féle Szüleményét | Magyar Nyelven | terjeszté előnkbe. | [tapered rule] Szeress, de hasznosan. | [ornament] | Az Író költségével. | [tapered rule] Komáromban, | Wéber Simon Péter' Betüivel. 1791.

8°: [16], [1]-349 p.

VERY RARE. After Benkő, this is the second systematic mineralogy written in the Hungarian language. It follows Wernerian principles.

REFERENCES: Apponyi, *Hungarica Ungarn Bücher*, 1903-27: ??????. • NUC: 682, 128 [NZ 0019151]. • Papp, Magyar Topografikus, 2002: p. 137.



ZASADY ORYKTOGNOZYI, 1817

**ZDZITOWIECKI, Józef Seweryn.** (BORN: Kodniu, Poland, 1802; DIED: Siedleckiej, Poland, 1879) *Polish geologist & mineralogist.*

REFERENCES: Orgelbranda, *Encyklopedia Powszechna*, 1898-1912: 16, 71-2. • PBA: *Polskie Archiwum Biograficzne*: 603, 264-269. • Sarjeant, *Geologists*, 1980: 3, 2482. • WBI.

### 5138. — Polish, 1817.

Zasady | Oryktognozyi | I | Geognozyi | podług naynowszege układu | Wernera | przez | Seweryna Zdzitowieckiego | Ucznia Klasy VI. Szkół Woiewódzkich Lubelskich | [tapered rule] | Tom Pierwszy. | W Lublinie | [rule] | w Drukarai Jana Karola Pruskiego.

16°: 16, 92 p.

RARE. A short description of Werner's theories in mineralogy and geology, providing a list of minerals.

REFERENCES: BL: [no copy listed]. • Czarniecki, Stanislaw. "Beispiele wissenschaftlicher Beziehungen zwischen polnischen und deutschen Gelehrten auf dem Gebiet der Geologie im Zeitalter der Aufklärung", *Zeitschrift für Geologische Wissenschaften*, 8 (1980), no. 2, 135-50, 6 illus. [Study on the interaction between Polish and German geologists in the 18th and 19th centuries.]. • Fleszarowa, *Bibliografia Geologiczna Polski*, 1966: no. 3640. • Morozewicz & Wolny, *Podręcznik Mineralogii*, 1931: p. xviii. • NUC: [no copy listed].

**ZECH, Paul Heinrich von.** (BORN: Stuttgart, Germany, 12 June 1828; DIED: Laichingen, ??, 17 January 1893) *German physicist & astronomer.*

Professor of physics and astronomy at the Polytechnicum in Stuttgart.

REFERENCES: Poggendorff: 2, col. 1399, 3, 1478-79 & 4, 1682.

**5139. — German, 1857.**

Die höhere Geometrie in ihrer Anwendung auf Kegelschnitte und Flächen zweiter Ordnung, mit einem Anhang: die Wellenfläche zweiaxiger Krystalle von Dr. Paul Zech, Repetent an der polytechnischen Schule in Stuttgart. Stuttgart, E. Schweizerbart'sche Verlagshandlung und Druckerei, 1857.

8°: iv, [2], 102 p., illus. SCARCE.

REFERENCES: BL.

**ZEILLER, Martin.**

**5140. — Latin, 1650** [First edition].

Topographia Bohemiae Moraviae et Silesiae, das ist, Beschreibung und eigentliche Abbildung der vornehmsten und bekandtesten Stätte und Plätze in dem Königreich Boheim und einverlebten Landern, Mähren und Schlesien an Tag gegeben unndt verlegt durch Matthaeum Merian ... Franckfurt, [Matthaeus Merian], 1650.

4°: 192, [16] p., [74] plates.

RARE. A topographical description of the region of Bohemia, Moravia, and Sileisia. It includes peripherally early information on the minerals and mining resources of the region.

REFERENCES: LKG: XIV 59 & XIV 60. • VD17: 12:205776N.

**ZEISIG, Johann Caspar.** *German lexicographer.*

[fl. mid-1700's]. Zeisig was a German lexicographer in Chemnitz (?). He had a collection of minerals, rocks, ores, uncut gem material and coins. He was probably originally from Freiberg and published his works under the pseudonym "Minerophilo Freibergensi."

REFERENCES: Wilson, *History of Mineral Collecting*, 1994: 199.

**5141. — German, 1730** [First edition].

[In black:] Neues und Curieuses | Bergwercks=  
| [in red:] Lexicon, | [in black:] Worinnen nicht  
nur | [in red:] Alle und jede beym Bergwerck,  
Schmeltz=Hüt= | [in black:] ten, Brenn=Hause,  
Saiger=Hütten, Blau=Farben= | Mühlen, Ham-  
merwercken &c. vorkommende Benennungen, son-  
dern | auch derer Materien, Gesüße, Instru-  
menten und Arbeits= | Arten Beschreibung en-  
thalten, | [in red:] Alles nach dem gebräuchlichen  
Bergmännischen Stylo, | [in black:] so wohl aus  
eigener Erfahrung, als auch aus bewehrtesten Scri=  
| benten mit besondern Fleiß zusammen getragen |  
Und | [in red:] In Alphabetische Ordnung | [in  
black:] zu sehr bequemen Nachschlagen gebracht,  
| von | [in red:] Minerophilo, | [in black:] Freiberg-  
gensi. | [printer's device] | [rule] | Chemnitz, 1730. |



BERGWERCKS-LEXICON, 1730

[rule] | [in red:] bey Joh. Christoph und Joh. David Stößeln.

8°: (a)<sup>8</sup> (b)<sup>4</sup> A-Z<sup>8</sup> 2A<sup>2</sup>; 197ℓ.; [24] p., cols. [1]-742, [1] p., frontispiece. The frontispiece is included in both the collation and pagination sequences. PAGE SIZE: 170 x 102 mm.

CONTENTS: [2 pgs], Blank, verso frontispiece.; [2 pgs], Title page, verso blank.; [20 pgs], "Vorrede."—signed "Minerophilo," on (a)5b; cols. [1]-742, Text.; [1 pg], "Errata."

PLATES: The engraved frontispiece shows a suface mining scene with buildings and various tools. Incorporated into the scene is the text, "Berg Werck Lexicon." The plate is signed "Brühl Sc. Lips."

VERY SCARCE. Published under the authorship of "Minerophilo Freibergensi," which on unstated reference, [Agricola Bibliography] attributes as a pseudonym for Zeisig. The Vorrede recommends this book to all those readers curious about the mining and smelting sciences. It provides the reader with an overview of the scope of the work. The author explains that various collections (including his own) were used in giving accurate descriptions of the terms, most notably with respect to minerals, rocks, ores and precious stones. He recognizes some of the objects as coming from Greek and Roman times. For mining terms he is indebted to Hertwigs *Berg=Buch*, as well as mine worker around Chemnitz.

The last 12 pages of the Vorrede are a poem. An early and valuable dictionary of terms used in mining, mineralogy, metallurgy, lumber trade,



## ZEITLER

dyeing, and foundry works. A long descriptive definition accompanies each term, together with some entymological details and examples of usage. The work was popular and subsequently published in ever expanding volumes.

**5142. 2nd edition, 1743:** Neues und wohleingerichtetes | Mineral= | und | Bergwercks= | Lexicon, | Worinnen nicht nur | Alle und jede bey dem Bergwerck, Schmelzt=Hüt= | ten, Brenn=Hause, Saiger=Hütten, Blau= Farben= | Mühlen, Hammerwercken &c. vorkommende Benennungen, | sondern auch derer Materien, Gesäße, Instrumenten und Arbeits= | Arten Beschreibungen enthalten, | Alles nach der gebräuchlichen bergmännischen Mund= | Art, so wohl aus eigener Erfahrung, als auch aus den bewehr= | testen Schriftstellern mit besondern Fleiß zusammen getragen | Und | In Alphabethische Ordnung | zu sehr bequemen Nachschlagen gebracht, | von | Minerophilo, | Freibergensi. | [rule] | Andere und vielvermehrte Ausgabe. | [rule] | Chemnitz, 1743. | [rule] | bey Johann Christoph und Johann David Stößeln.

8°: (a)<sup>7</sup> A-Z<sup>8</sup> Aa-Qq<sup>8</sup>; 318ℓ.; [14], [1]-621, [3] p., frontispiece. PAGE SIZE: 176 x 102 mm.

CONTENTS: [2 pgs], Title page, verso blank.; [5 pgs], "Alte Vorrede."; [7 pgs], "Neue Vorrede."—signed "Die Verleger," Chemnitz, 1743.; [1]-621, Text.; [3 pgs], "Errata."

PLATES: The engraved frontispiece shows a suface mining scene with buildings and various tools. Incorporated into the scene is the text, "Berg Werck Lexicon." The plate is signed "Brühl Sc. Lips." It is identical to the frontispiece found in the 1730 edition.

VERY SCARCE. Published under the authorship of "Minerophilo Freibergensi," which on unstated reference, [Agricola Bibliography] attributes as a psuedonym for Zeisig. In the new forward, the publisher notes that the first edition of this work was well received, and although an update had been planned, the author had no time to spare in revising the text. Therefore, the publisher had undertaken the task, and it is thought had maintained the same quality of definitions. The text has been enlarged with the addition of more terms.

REFERENCES: Partsch, *Katalog der Bibliothek*, 1851: no. 144.

**5143. 3rd edition, 1784:** Neues und wohleingerichtetes | Mineral= | und | Bergwercks= | Lexicon, | worinnen nicht nur | alle und jede bey dem Bergwerk, Schmelz=Hütten, | Brenn=Hause, Saiger=Hütten, Blau=Farben= Mühlen, Ham= | merwerken &c. vorkommende Benennungen, sondern auch | derer Materien, Gesäße, Instrumenten und Arbeits= | Arten Beschreibungen enthalten, | alles nach der gebräuchlichen bergmännischen Mund= | Art, so wohl aus eigener Erfahrung, als auch aus den | bewehrtesten Schriftstellern mit besondern | Fleiß zusammen getragen, | und | in Alphabethische Ordnung | zu sehr bequemen Nachschlagen gebracht, | von | Minerophilo, | Freibergensi. | [rule] | Dritte und verbesserte Ausgabe. | [rule] | Mit Churfürstl. Sächsl. allergnädigster Freyheit. | [ornate rule] | Chemnitz, 1784. | bey Joh. Dav. Stößels Erben und Purscher.

8°: )\*(<sup>4</sup> A-Z<sup>8</sup> Aa-Oo<sup>8</sup> Pp<sup>3</sup>; 303ℓ.; [8], [1]-598 p., frontispiece. PAGE SIZE: 180 x 112 mm.

CONTENTS: [2 pgs], Title page, verso blank.; [6 pgs], "Vorrede."; [1]-598, Text.

PLATES: The engraved frontispiece shows a suface mining scene with buildings and various tools. Incorporated into the scene is the text, "Berg Werck Lexicon." The plate is signed "Brühl Sc. Lips." It is identical to the frontispiece found in the 1730 edition.

VERY SCARCE. Published under the authorship of "Minerophilo Freibergensi," which on unstated reference, [Agricola Bibliography] attributes as a psuedonym for Zeisig. This edition further enlarges the number of terms defined.

REFERENCES: Agricola Bibliographie. • Partsch, *Katalog der Bibliothek*, 1851: no. 143.

## ZEITLER, Hans.

### 5144. — English, 1913.

Mica, its History, Production, and Utilization. London, D. Jaroslaw, 1913.

8°: 86 p., frontispiece (colored), 24 illus.

VERY SCARCE. The text includes chapters on the history of use, physical and chemical properties, occurrences, production and working, application, production statistics, and consumption. A bibliography and index are included.

REFERENCES: BL: [07107.g.49.]. • NUC.

### 5145. — German, 1913.

Der Glimmer. Eine monographische Studie. Berlin, Verlag von Jaroslaw's Erste Glimmerwaren-Fabrik, 1913.

8°: 91 p., illus. VERY SCARCE.

REFERENCES: NUC.

## ZEITSCHRIFT FÜR KRYSTALLOGRAPHIE.

### 5146. — German, 1877 [Periodical].

Zeitschrift | für | Krystallographie | und | Mineralogie | unter mitwirkung | Zahlreicher Fachgenossen des in- und auslandes | herausgegeben | von P. Groth. | [rule] | Erster Band | Mit 25 Lithographirten Tafeln und 101 Holzschnitten. | [ornate rule] | Leipzig, | Verlag von Wilhelm Engelmann. | 1877.

VERY SCARCE. Founded and edited by Paul Groth, this seminal journal on crystallography and related matters is still being published today.

REFERENCES: *Union List of Serials*: 5, ??.

**ZEJSZNER, Ludwik.** (BORN: Warsaw, Poland, 3 January 1807; DIED: Krakau, Poland, 3 January 1871) *Polish mineralogist.*

Zejszner received his Ph.D. from Göttingen in 1829. He then studied in Warsaw, Berlin and Göttingen, before becoming professor of mineralogy at the University of Krakau in 1829. He was appointed director of mining science for the state of Krakau in 1833. In 1850, Zejszner was offered a professorship at the University of Warsaw. Upon retirement he returned to Krakau.

REFERENCES: *Bulletin de la Société Géologique de France*: 3rd Series, 1, 296-8. • Czarniecki, S., "Rękopisy Ludwika Zejsznera zachowane w Muzeum Naukowo-Przyrodniczym we Lwowie," *Prace Muzeum Ziemi*, no. 8 (1966), 155-8. • DSB: 15, 526-7 [[by S. Czarniecki]]. • *Jber. Schles. Ges. vaterl. Kult.*: 49 (1872), 350-2. • *Kal. ilustra.* 1873, 84-6, portrait. • Kettner, Radim., "Ludwik Zejszner (Zeuschner) (1807, +1871)," *Casopis pro Mineralogii a Geologii*, 2 (1957), no. 4, 461-2, portrait. • Lambrecht & Quenstedt, *Catalogus*, 1938: 472. • Orgelbranda, *Encyklopedia Powszechna*, 1898-1912: 16, 79. • PBA: *Polskie Archiwum Biograficzne*: 604, 20-28. • Poggendorff: 3, 1479-80. • *Prz. lek.* 16 (1877), 469-71, 485-7, 497-9 & 511-3. • Sarjeant, *Geologists*, 1980: 3, 2484. • WBI. • Zborowski, J., "Itineraria Ludwika Zejsznera w Tatrach i na Podtatrzu. Przyczynek do dziejów geologii w Polsce," *Prace Muzeum Ziemi*, no. 8 (1966), 147-54 [Prace z zakresu historii nauk geologicznych].

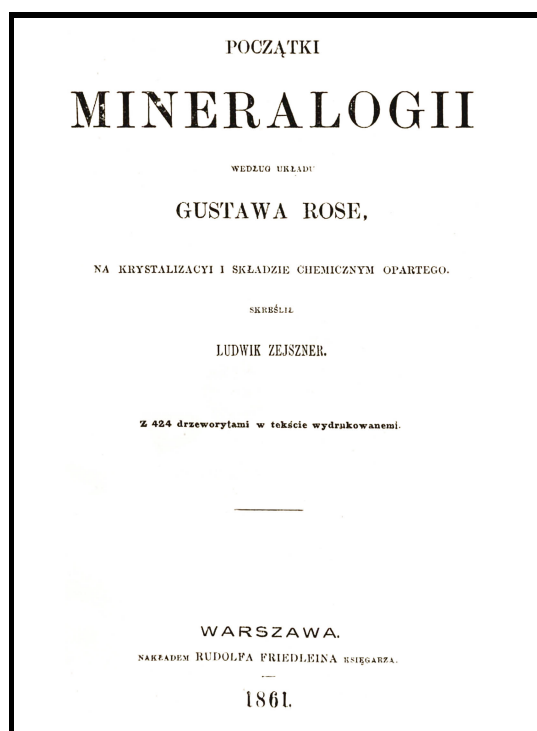
**5147. — Polish, 1833.**

Systemat minerałów według zasad J.J. Berzeliusza ułożył ... Kraków, Autor, 1833.

16°: xvi, 116 p., biblio.

VERY RARE. Ashort study of the mineral classification system of JONS JACOB BERZELIUS that incorporates abbreviated species descriptions taken from R. SYMONOWICZA's *O stanie dzisiejszym Mineralogii* (Wilno, 1806). The work appears to have been published at the author's expense.

REFERENCES: BL: [no copy listed]. • Fleszarowa, *Bibliografia Geologiczna Polski*, 1966: no. 3662. • Koziorowski, *Materiały do Polsce Mineralogii*, 1925: p. 677-9. • Morozewicz & Wolny, *Podręcznik Mineralogii*, 1931: p. xxii-xxiv. • NUC: [no copy listed].



POCZĄTKI MINERALOGII, 1861

**5148. — Polish, 1861.**

Początki | Mineralogii | Według Układu | Gustawa Rose, | Na Krystalizacji I Składzie Chemicznym Opartego. | Skreślił | Ludwik Zejszner. | Z 424 drzeworytami w tekście wydrukowanemi. | [rule] | Warszawa. | nakładem Rudolfa Friedleina księgarza. | [short rule] | 1861.

8°: [i]-xxiii, [1]-550 p., 424 illus., biblio.

CONTENTS: [i-ii], Half title page, verso blank.; [iii-iv], Title page, verso printer's authorization.; [v]-xix, "Przedmowa." (=preface).; [xx], Blank.; [xxi]-xxiii, "Spis Przedmiotów" (=table of contents).; [1]-532, Text.; [533]-550, "Spis" (=index).

RARE. A comprehensive and fully illustrated mineralogical text based upon the writings and system of GUSTAV ROSE. This was one of the earliest introductions of the chemical basis of mineralogy to Poland.

REFERENCES: BL: [no copy listed]. • Fleszarowa, *Bibliografia Geologiczna Polski*, 1966: no. 3791. • Koziorowski, *Materiały do Polsce Mineralogii*, 1925: p. 679. • Morozewicz & Wolny, *Podręcznik Mineralogii*, 1931: p. xxx-xxxi. • NUC: [no copy listed].

**ZENKER, Jonathan Karl.** (BORN: Sundremda, Grossherz., Weimar, Germany, 1 March 1799; DIED: Jena, Germany, 6 November 1837) *German physician.*

Doctor of medicine and philosophy. Successively private docent (1825) professor extraordinary (1828), professor ordinary (1836) of botany and natural history at the University of Jena.

REFERENCES: Poggendorff: 2, col. 1404.

**5149. — German, 1836.**

Historisch – topographisches Taschenbuch von Jena und seiner Umgebung, besonders in naturwissenschaftlicher und medicinischer Beziehung. Herausgegeben ... von J.C. Zenker. Jena, 1836.

8°: x, 338 p., one plate, one map.

VERY SCARCE. Contains in part II "Mineralien und Gewässer" by G. Suckow.

REFERENCES: BMC: 5, 2387.

**ZENO, Franz.** (BORN: Olmütz, Germany, 6 January 1734; DIED: Prague, Czech Republic, 14 June 1781) *German theologian.*

Jesuit instructor of grammar and mathematics in Prague and Olmütz. From 1777 oversaw the observatory at Prague. There he was known as an innovator with the instruments.

REFERENCES: DBA: I 1409, 17-20. • Meusel, *Verstorbenen Deutschen Schriftsteller*, 1802-16. • Poggendorff: 2, col. 1405. • WBI.

**5150. — German, 1769.**

Abhandlung von See-Versteinerungen und Fossilien, welche bey Prag gefunden werden von F. Zeno. Prag, 1769.

8°: 2 plates.

EXTREMELY RARE. This title appears to reference a separate printing of a series of papers first published in the *Neue Physicalische Belustigung*, 1 (1770) & 2 (1771).

REFERENCES: BL: [no copy listed]. • LKG: XIV 67. • NUC: [no copy listed]. • Wrany, *Pflege der Mineralogie in Böhmen*, 1898: p. 53.

**ZENTRALBLATT FÜR MINERALOGIE.**

Centralblatt für Mineralogie, Geologie und Palaeontologie. (Stuttgart, 1900-1924).

See: *Centralblatt Für Mineralogie.*

**ZEPF, Kasimir.****5151. — German, 1900 [First edition].**

Einführung in der Mineralogie und Chemie nebst einem kurzer Abriß über Gesteinslehre und Erdgeschichte. Lehrbuch ... an Lehrer-und L-innen-Seminarien, Höh. Mädchenschulen ... sowie zum

## ZEPHAROVITCH

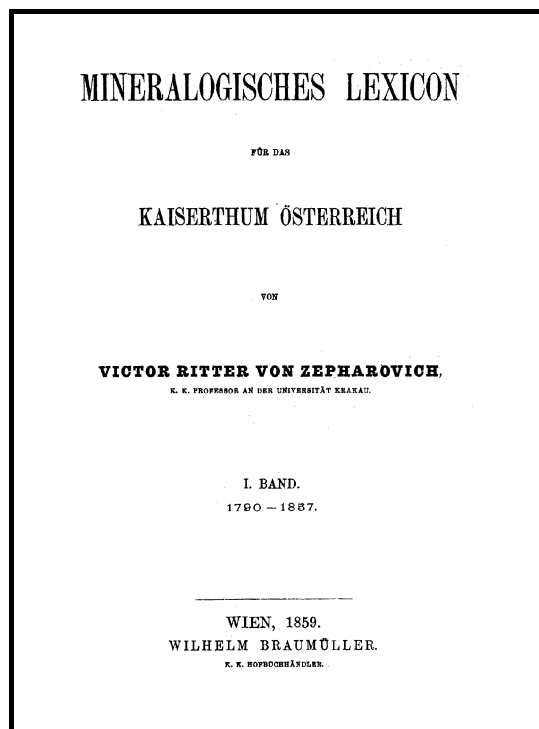
Selbstunterricht. Freiburg in Breisgau, Herder, 1900.

8°: viii, 156 p., 2 chromolithographic plates, 83 illus. VERY SCARCE.

**ZEPHAROVITCH, Victor Leopold**, *Ritter von*. (BORN: Vienna, Austria, 13 April 1830; DIED: Prague, Czechoslovakia, 24 February 1890) *Austrian mineralogist & geologist*.

Zepharovitch work from 1852 until 1857 as section geologist to the geological Reichs-Anstalt of Vienna. In 1857, he was appointed ordinary professor of mineralogy at the University of Kraków. In 1864 he became a professor at the University of Graz, Austria.

REFERENCES: ADB: 45, 72. • *American Journal of Science*: 3rd Series, 139 (1890), 326. • Barr, *Index to Biographical Fragments*, 1973: 289. • Lambrecht & Quenstedt, *Catalogus*, 1938: 473. • Meixner, *Mineralogischen Erforschung Kärntens*, 1951: p. 28. • *Neues Jahrbuch für Mineralogie, Geologie und Paläontologie*: Jg. 1890, 2, 1-8, biblio. in preliminary section. • Poggendorff: 2, cols. 1405-6, 3, 1480 & 4, 1688. • Sarjeant, *Geologists*, 1980: 3, 2485 & Suppl. 1 (1986), 2, 906-7.



MINERALOGISCHE LEXICON, 1859

### 5152. — German, 1859-93.

Mineralogisches Lexicon | für das | Kaiserthum Österreich | von | Victor Ritter von Zepharovitch | K.K. Professor an der Universität Krakau. | I. Band. | 1790—1857. | [rule] | Wien, 1859. | Wilhelm Braumüller. | K.K. Hofbuchhändler.

[TITLE PAGE OF VOLUME 2:]

Mineralogisches Lexicon | ... | II. Band. | 1858—1872. | ... Wien, 1873. | Wilhelm Braumüller. | K.K. Hof- und Universitäts-Buchhändler.

[TITLE PAGE OF VOLUME 3:]

Mineralogisches Lexicon | Für Das | Kaiserthum Österreich. | von | V. von Zepharovich. | III. Band. | Enthaltend Die Nachträge Aus Den Jahren 1874—1891 | Und Die General-Register. | [rule] | Nach Des Autors Hinterlassenem Manuscripte | Bearbeitet Von | F. Becke, | C.M. Kais. Akad. | [rule] | Herausgegeben | Auf Kosten Der V. Von Zepharovitch-Stiftung Durch Die Kais. Akademie | Der Wissenschaften In Wien. | [ornate rule] | Verlag Der Kais. Akademie Der Wissenschaften In Wien. | In Commission Bei F. Tempsky, Akadem. Buchhändler. | Wien 1893.

3 vols. [VOL 1: 1859] 8°:  $\pi^2$  I-II<sup>8</sup> III<sup>2</sup> 1-38<sup>8</sup> 39<sup>10</sup>; ?? $\ell$ .; [I]-XXX, [2], [1]-627, [3] p. [VOL 2: 1873] 8°:  $\pi^8$  1-27<sup>8</sup> 28<sup>2</sup>; ?? $\ell$ .; [I]-XIV, [2], [1]-436 p. [VOL 3: 1893] 8°:  $\pi^8$  1-30<sup>8</sup>; ?? $\ell$ .; [I]-XIV, [2], [1]-478, [2] p., frontispiece.

CONTENTS: [Vol 1] [I-II], Title page, verso blank.; [III], Dedication to Wilhelm Haidinger.; [IV], Blank.; [V]-XII, Preface—dated May 1858.; [XIII]-XXVIII, "Literatur-Verzeichniss."; XXIX-XXX, "Abkürzungen."; [1 pg], "Die Mineral Oesterreich's."; [1 pg], Blank.; [1]-516, Text.; [517], "Verzeichnisse."; [518], Blank.; [519]-611, "I. Mineral-Fundorte."; [612]-627, "II. Mineral-Namen."; [1 pg], Blank.; [2 pgs], "Einige Verbesserungen Und Zusätze."

[Vol 2] [I-II], Title page, verso "Druck von Heintr. Mercy in Prag."; [III]-V, Preface—dated 1 June 1873.; VI, Blank.; [VII]-XIV, "Literatur-Verzeichniss."; [1 pg], "Die Mineralien Oesterreich's."; [1 pg], "Abkürzungen."; [1]-353, Text.; [354], Blank.; [355]-375, "Nachtrag."; [376], Blank.; [377]-419, "Verzeichniss | der | Mineral-Fundorte."; [420], Blank.; [421]-434, "Verzeichniss | der | Mineral-Namen."; 435-436, "Einige Zusätze und Verbesserungen."

[Vol 3] [I-II], Title page, verso "Druck von Heintr. Mercy in Prag."; [III]-VI, Preface—signed F. Becke, 1893.; [VII]-XII, "Literatur-Verzeichniss."; [XIII]-XIV, "Häufig benützte Abkürzungen."; [1 pg], "Die Mineralien Oesterreich's."; [1 pg], Blank.; [1]-270, "Text.; [271]-445, "Verzeichnis | der | Mineralfundorte | in | Band I-III."; [446], Blank.; [447]-478, "Verzeichnis | der | Mineral-Namen | In | Band I-III."; [2 pgs], "Druckfehler und Berichtigungen."

SCARCE. An important topographical compilation describing the known mineralogical occurrences throughout the Austro-Hungarian Empire. Primarily compiled from the existing literature, for which a list of references is supplied at the start of each volume, the text provides an alphabetical list of mineral species with reported localities divided by region described underneath. The first volume covers the period 1790 to 1857, the second 1858 to 1873 and the third 1874 to 1891. The third volume, published from manuscript material left after Zepharovitch's death, was published by the Vienna Academy at the cost of the Zepharovich fund. Each of the first two volumes contains indexes to localities and mineral species, while the third volume contains comprehensive indexes to all three texts, including a two hundred page index of mineral localities.

Facsimile reprint, 1985: Graz, RM-Druck, 1985. 3 vols.

REFERENCES: *American Journal of Science*: 3rd Series, 46

(1893), 482. • BMC: 5, 2388. • Dana's 7th (Bibliography): 84. • Fleszarowa, *Bibliografia Geologiczna Polski*, 1966: no. 3841. • K.K. geologische Reichsanstalt: 1858, 116.

**5153. — German, 1864.**

Krystallographische | Studien über den Idokras.  
| Von | V. Ritter von Zepharovitch. | (Mit 13  
Tafeln) | (Aus dem XLIX. Bande des Jahrganges  
1864 der Sitzungsberichte der mathem. -naturw.  
Classe der | kais. Akademie der Wissenschaften  
besonders abgedruckt.) | (Vorgelegt in der Sitzung  
am 9. Juli 1863.) | [ornate rule] | Wien. | Aus  
der K.K. Hof- und Staatsdruckerei. | [rule] | In  
Commission bei Karl Gerold's Sohn, Buchhändler  
der Kaiserlichen Akademie | der Wissenschaften. |  
1864.

4°.

VERY SCARCE. Idocrase; crystallography.  
Originally appeared in *Sitzungsber. k. Akad. Wissensch.*  
Wien., 49, p. 6-134, 13 plates.

REFERENCES: BMC: 5, 2388.

**5154. — German, 1860.**

Erläuterungen zur Sammlung für das Studium der  
mineralogischen Eigenschaftslehre im Museum der  
Universität Krakau. Krakau, 1860.

8°: [1]-100 p., lithographs.

RARE. Opis poszczególnych okazów.

REFERENCES: BL. • Fleszarowa, *Bibliografia Geologiczna Polski*, 1966: no. 3842. • NUC.

**ZEUSCHNER, Ludwig.**

See: Zejszner, Ludwik.

**ZIEGRA, Constantin.**

Disputatio de Metallis in Specie Dictis. Respondent Georg  
Chladni. (Witteburg, 1665).

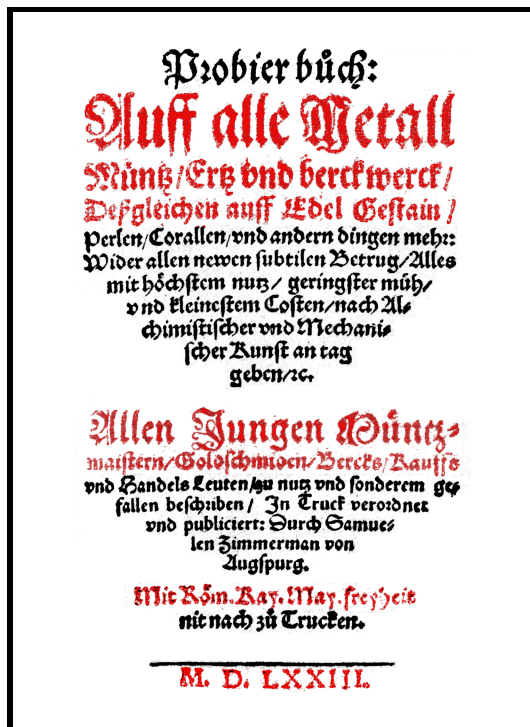
See: Chladni, Georg.

**ZIMMERMAN, Samuel.**

**5155. — German, 1578.**

[In black:] Probierrbüch: | [in red:] Auffalle Metall  
| Müntz/ Ertz vnd berkwerck/ | Deßgleichen auff  
Edel Gestain/ | [in black:] Perlen/ Corallen/ vnd  
andern dingen mehr: | Wider allen newen subtilen  
Betrug/ Alles | mit höchstem nutz/ geringster  
müh/ | vnd kleinstem Costen/ nach Al= |  
chimistischer vnd Mechani= | scher Kunst an  
tag | geben/ &c. | [in red:] Allen Jungen Düntz=  
| maistern/ Goldschmiden/ Bercks/ Rauffs | [in  
black:] vnd Handels Leuten/ zu nutz vnd sonderem  
ge= | fallen beschriben/ In Truck verordnet | vnd  
publiciert: Durch Samue= | len Zimmerman von |  
Augsburg. | [in red:] Mit Kôm. Kay. May. freyheit  
| [in black:] nit nach zû Trucken. | [rule] | [in red:]  
M. D. LXXIII.

8°: [16], 172, [11] p., woodcut illus. Title in red  
and black. Published by M. Manger in Augsburg.



PROBIERRBÜCH, 1578

VERY RARE. Contrary to what the title suggests, this is an entirely different work than the many of the editions of the *Probierrbüchlein* published during the 16th century. Three other books on assaying were published in the 16th century, which though having similar titles are totally independent. These are Modestin Fachs' *Probierr Büchlein*, Ciriacus Schreittmann's *Probierrbüchlein* (Frankfurt, 1578), and Zimmermann's *Probierrbüchlein*.

REFERENCES: Darmstädter, *Berg-Büchlein*, 1926: p. 89. • Ferguson, *Bibliotheca Chemica*, 1906: 2, 568-9. • Jonathan Hill, Bookseller: cat. 153, no. 100. • Partington, *History of Chemistry*, 1961-70: 2, 67. • Sisco & Smith, *Bergwerk- und Probierrbüchlein*, 1949: p. 162.

**ZIMMERMANN, Johann Christian.** (BORN: Marburg, Germany, 25 April 1788; DIED: Clausthal, Austria, 29 September 1853) *German mining expert.*

Ph.D., Heidelberg, 1807. From 1805 to 1807 worked as private docent at the University of Heidelberg. Became mining consultant first in West Phalia, than in Hannover. Appointed mine assessor followed by chief mine assessor. He became an instructor at the school of mines in Clausthal, Austria.

REFERENCES: DBA: II 1449, 77. • Poggendorff: 2, col. 1413. • Sarjeant, *Geologists*, 1980: 3, 2488. • WBI.

**5156. — German, 1808.**

Darstellungen aus der Mineralogie, Mathematik, Physik und Bergwerkskunde, von Christian Zimmermann, Doctor der Philosophie, Privatdocent der Universität Heidelberg und mehrer gelehrten Gesellschaften Mitglied. Heidelberg, Mohr & Zim-

## ZIPPE

mer, 1808.

8°: 310 p.

VERY SCARCE. Contains a classification and description of rocks.

REFERENCES: LKG: VI 122 & VI 123.

### 5157. — German, 1848.

Handbuch | zum | Bestimmen der Mineralien | auf dichotomischem Wege | nach Dufrénoy's Traité de Minéralogie. | [ornate rule] | Mit einem Vorwort | von | Dr. Chr. Zimmermann | [...3 lines of titles and memberships...] | [rule] | Nebst 240 Abbildungen. | [double rule] | Clausthal, 1848. | Verlag der Schweigerschen Buchhandlung.

8°: xii, 372 p., 240 illus., 8 plates. PAGE SIZE: 142 x 90 mm. VERY SCARCE.

**ZIMMERMANN, Rudolf.** (BORN: 1878; DIED: 1943) *German ornithologist.*

REFERENCES: DBA: II 1449, 317. • WBI.

### 5158. — German, 1904.

Die Mineralien. | [rule] | Eine Anleitung | zum | Sammeln und Bestimmen derselben nebst einer Beschreibung | der wichtigsten Arten | von | Rudolf Zimmermann, | Herausgeber der Monatsschrift für Mineralien-, | Gesteins- und Petrefakten-sammler. | [rule] | Mit 8 Tafeln. | Halle a. S. | Hermann Gesenius. | 1904.

8°: xii, 120 p., 8 plates (colored). VERY SCARCE. REFERENCES: BMC: 5, 2392.



ZIPPE

**ZIPPE, František Xaver Maximilian.** (BORN: Falkenau, Bohemia, Czechoslovakia, 15 January 1791; DIED: Vienna, Austria, 22 February 1863) *Czech mineralogist & geologist.*

Zippe received his Ph.D. in medicine and philosophy from the University of Prague. In 1819, he became adjunct professor of chemistry at the technical institute in Prague. In 1826, he was appointed the first custodian of the mineral collection at the newly erected national museum, and from 1835 to 1849, Zippe was professor of natural history at the technical institute of Prague. In 1849, he was for a short period the director of the newly formed Mountain school in

Příbram. In 1850, he was appointed professor ordinary of mineralogy at the University of Vienna. He was a founding member of the Vienna Academy of Science.

REFERENCES: ADB: 45, 358. • DBA: I 1416, 315-326; II 1450, 28-31. • Kettner, Radim., "František Xaver Maximilian Zippe (1791, +1863)," *Casopis pro Mineralogii a Geologii*, 8 (1963), no. 4, 404-5, portrait. • Poggendorff: 2, cols. 1416 & 1444 & 3, 1487. • Sarjeant, *Geologists*, 1980: 3, 2488. • WBI. • Wrany, *Pflege der Mineralogie in Böhmen*, 1898: 93-7. • Wurzbach, *Biographisches Lexikon Österreich*, 1856-91.

### 5159. — German, 1857.

Geschichte | der | Metalle. | Von | Dr. F.X.M. Zippe, | Ritter des Kaiserl. Österr. Franz-Joseph-Ordens, K.K. Regierungsrath und | Professor der Mineralogie an der Universität zu Wien. | [tapered rule] | Wien 1857. | Wilhelm Braumüller, | K.K. Hofbuchhändler.

8°: [A]<sup>8</sup>  $\chi^1$  1-228 237; 192*l.*; [i]-xv, [3], [1]-364, [2] p. PAGE SIZE: 212 x 140 mm.

CONTENTS: [i-ii], Title page, verso blank.; [iii]-ix, "Vorbericht."—dated March 1857.; [x], Blank.; [xi]-xv, "Inhalt.;" [1 pg], Blank.; [1 pg], "Geschichte der Metalle.;" [1 pg], Blank.; [1]-364, Text.; [1 pg], "Einige Verbesserungen.;" [1 pg], "Gedruckt bei Josef Stöckholzer von Hirschfeld in Wien."

SCARCE. The text provides details of the various metals, including mineralogy, occurrences, extraction techniques, etc., along with a history of their discovery and uses.

REFERENCES: BMC: 5, 2393.

### 5160. — Polish, 1857.

Mineralogia dla niższych szkół realnych. Tłum. Zenon Hałatkiewicz. Wiedeń, 1857.

8°: [1]-112 p.

RARE. Opis 14 grup mineralów, skał, rud; indeks opisanych okazów.

REFERENCES: BL: [no copy listed]. • Fleszarowa, *Bibliografia Geologiczna Polski*, 1966: no. 3857. • NUC: [no copy listed].

**5161. 3rd edition, 1858:** Die Characktere | der | Klassen, Ordnungen, Geschlechter | Und Arten | Des | Naturhistorischen | Mineral-Systemes | Von | Friederich Mohs. | [rule] | Neu Bearbeitet | Von | Dr. F.X.M. Zippe, | Ritter des Kaiserl. Gesterk. Franz-Joseph-Ordens, K.K. Regierungsrath und Professor der | Mineralogie and der Universität zu Wien. | [rule] | Wien 1858. | Wilhelm Braumüller, | K.K. Hofbuchhändler.

[ADDED TITLE PAGE READS:]

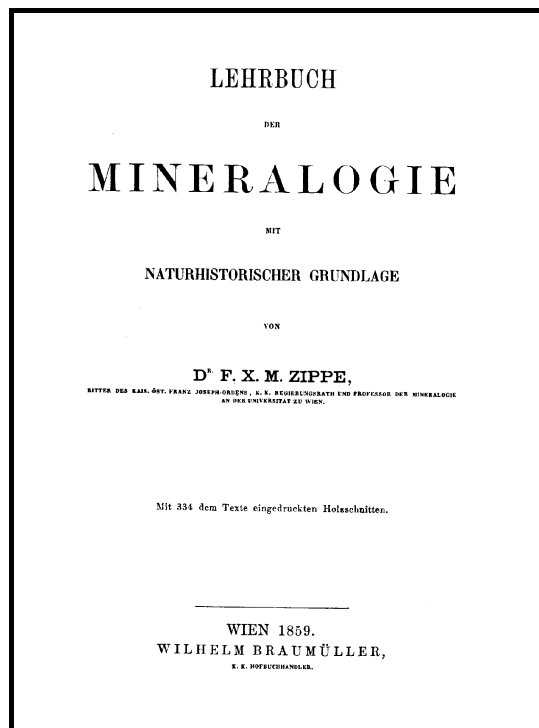
Die Charakteristik | des | Naturhistorischen | Mineral-Systemes | als Grundlage | zur richtigen Bestimmung der Species des Mineralreiches. | Von | Dr. F.X.M. Zippe, | Ritter des Kaiserl. Gesterk. Franz-Joseph-Ordens, K.K. Regierungsrath und Professor der | Mineralogie and der Universität zu Wien. | [rule] | Wien 1858. | Wilhelm Braumüller, | K.K. Hofbuchhändler.

8°: [6], [i]-vi, [1]-250, [2] p. PAGE SIZE: 216 x 140 mm.

CONTENTS: [2 pgs], Blank, verso first title page.; [2 pgs], Second title page, verso blank.; [1 pg], Dedication.; [1 pg], Blank.; [i]-vi, "Vorbericht."—dated December 1857.; [1]-240, Text.; [241]-250, "Register.;" [1 pg], "Einige Nachträge und Verbesserungen.;" [1 pg], Blank.

VERY SCARCE. Edited after Mohs death by FRANZ XAIVER MATTHIAS ZIPPE. The volume has an added

title page: *Die Charakteristik des naturhistorischen Mineral-Systemes, als Grundlage zur richtigen Bestimmung der Species des Mineralreiches.*



LEHRBUCH DER MINERALOGIE, 1859

**5162. — German, 1859.**

Lehrbuch | der | Mineralogie | mit Naturhistorischer Grundlage | von | Dr. F.X.M. Zippe, | Ritter des Kais. Öst. Franz Joseph-Ordens, K.K. Regierungsrath und Professor der Mineralogie | an der Universität zu Wien. | Mit 334 dem Texte eingedruckten Holzschnitten. | [rule] | Wien 1859. | Wilhelm Braumüller, | K.K. Hofbuchhändler.

8°: [i]-xvii, [3], [1]-433, [3] p., 334 text woodcuts.  
PAGE SIZE: 216 x 138 mm.

CONTENTS: [i-ii], Title page, verso blank.; [iii], Dedication to Carl August Neumann.; [iv], Blank.; [v]-x, "Vorbericht."—dated March 1859.; [xi]-xviii, "Inhalt.": [1 pg], "Zusätze und Verbesserungen.": [1 pg], Sectional title page, "Lehrbuch | Der | Mineralogie.": [1 pg], Blank.; [1]-433, Text.; [1 pg], Blank.; [1 pg], "Nachträgliche Verbesserungen in der Charakteristik.": [1 pg], Blank.

VERY SCARCE. A typical textbook of mineralogy, less successful than others of the time, owing to its one and only printing. The text provides definitions, nomenclature, descriptions of physical and chemical properties, and a descriptive mineralogy.

REFERENCES: BMC: 5, 2393. • Dana's 7th (Bibliography): 84.

**5163. — German, 1830.**

Die | Krystallgestalten | der | Kupferlasur, | von F.X.M. Zippe, | Kustos der Mineralien= und Petrefaktensammlungen des vater= | ländischen Museums. | Für die Abhandlungen der königl. böhmischen Gesellschaft der | Wissenschaften. | [rule] | Mit 5 Kupfertafeln. | [tapered rule] | Prag 1830. | Gedruckt bei Gottlieb Haase Söhne.

8°: 53, [1] p., 5 plates.

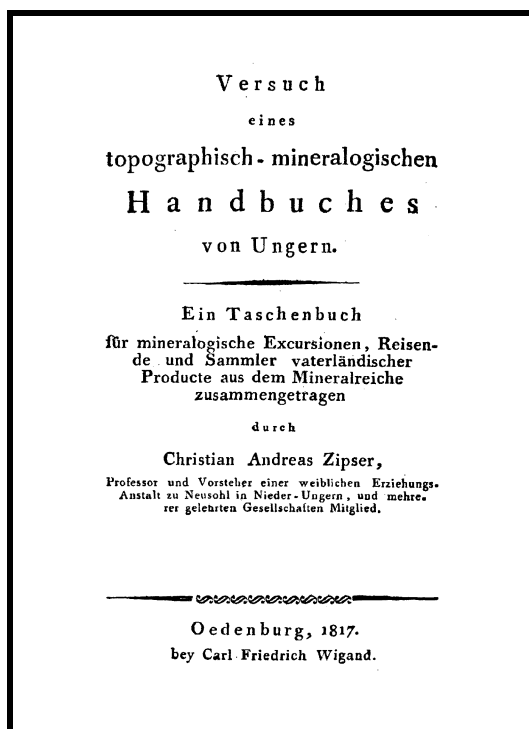
VERY SCARCE. Published originally in *Prague* — *Königlich-Böhmischen Gesellschaft der Wissenschaften. Abhandlung, &c. Neue Folge.*, vol. 3.

REFERENCES: BMC: 5, 2393.

**ZIPSER, Keresztély András (Christian Andreas).**  
(BORN: Raab, Hungary, 25 November 1783; DIED: 1864)  
*Hungarian mineralogist.*

Advisor to an evangelical girl's school in Neusohl, Hungary. Formerly a school instructor in Brünn.

REFERENCES: ADB: 45, 359 [by K. von Zittel]. • DBA: I 1416, 360-369; II 1450, 71-72. • Hamberger & Meusel, *Gelehrte Teutschland*, 1796-1834. • Lambrecht & Quenstedt, *Catalogus*, 1938: 474. • *Magyar Életrajzi Lexikon*: 2, 1080. • Poggendorff: 2, col. 1417 & 3, 1487. • Sarjeant, *Geologists*, 1980: 2, 2489. • WBI. • Wurzbach, *Biographisches Lexikon Österreich*, 1856-91.



VERSUCH, 1817

**5164. — German, 1817.**

Versuch | eines | topographisch – mineralogischen | Handbuchs | von Ungern. | [tapered rule] |

## ZITTEL

Ein Taschenbuch | für mineralogische Excursionen, Reisen- | de und Sammler vaterländischer | Pro-  
duce aus dem Mineralreiche | zusammengetragen  
| durch | Christian Andreas Zipser, | [...3 lines of  
titles and memberships...] | [ornate rule] | Oedenburg,  
1817. | bey Carl Friedrich Wigand.

8°:  $\pi^8 \chi^8$  A-Z<sup>8</sup> Aa-Dd<sup>8</sup> Ee<sup>4</sup>; 236 $\ell$ .; [i]-xxxi, [1],  
[1]-439, [1] p. PAGE SIZE: 190 x 110 mm.

CONTENTS: [i-ii], Title page, verso quotation in  
Geman, signed F.L. Graf zu Stolberg.; [iii], Dedication  
to Carl Caesar Leonhard and Johann Friedrich Ludwig  
Hausmann.; [iv], Blank.; [v]-xviii, "Vorrede."—signed C.A.  
Zipser, 1816.; xix-xxxi, "Herrn Bergrath | Werners |  
Neuestes Mineral-System (von 1817)."; [1 pg], Blank.; [1]-  
432, Text.; 433-439, "Geographisches Register.;" [1 pg],  
"Druckfehler."

VERY SCARCE. An interesting topographical  
mineralogy being a handbook to Hungarian mineral  
occurrences. The text is divided by locality, under which  
the mineral species that are found there are listed.  
Zipser follows Werner in his mineral descriptions. At  
the end is a geographical index to the work.

REFERENCES: BL. • BMC: 5, 2393. • GV (1700-1910):  
160, 331. • NUC: 684, 391 [NZ 0049548].

**ZIRKEL, Ferdinand.** (BORN: Bonn, Germany, 20 May  
1838; DIED: Bonn, Germany, 11 June 1912) *German  
mineralogist, petrographer & geologist.*

Zirkel was educated in his native town, and graduated  
Ph.D. at the university in 1861. In early years he was  
engaged in teaching geology and mineralogy in Vienna.  
He became professor of geology in 1863 at the University  
of Lemberg, in 1868 at Kiel, and in 1870 professor of  
mineralogy and geology in the University of Leipzig.

REFERENCES: *American Journal of Science*: 4th Series,  
184 (1912), 228. • Barr, *Index to Biographical Fragments*,  
1973: 289. • *Ber. Verh. sächs. Akad. Ges. Wiss., Leipzig, Ger-  
many, Math.-Phys. Kl.*: 64 (1912), 499-508. • DBA: I 1416,  
381-382; II 1450, 87-100. • *Der Geologie*: 12 (1914), 7 p.  
• DSB: 14, 625 [by G.C. Amstutz]. • Freund & Berg,  
*Geschichte der Mikroskopie*, 1966. • *Math. Naturw. Blätter*:  
9 (1912), no. 10, 145-6. • *Nature*: 76 (1907), 605. • Poggen-  
dorff: 3, 1487, 4, 1693 & 5, 1412. • *Proceedings of the Geolog-  
ical Society, London*: (1912-3), lv-lvii. • *Quarterly Journal of  
Geological Society of London*: 69 (1913), ?? . • Sarjeant, *Ge-  
ologists*, 1980: 3, 2489-90. • *Science*: 36 (1912), 48. • WBI. •  
*World Who's Who in Science*: 1847. • *Zeitschrift der Deutschen  
Geologischen Gesellschaft, Monatsberichte*: Jg. 1912, no. 7,  
354-63, portrait. • *Zeitschrift prakt. Geol.*: Jg. 1912, 383. •  
*Zentralblatt für Mineralogie*: Jg. 1912, 513-22, portrait.

### 5165. — German, 1873.

Die | Mikroskopische Beschaffenheit | Der |  
Mineralien und Gesteine. | Von | Dr. Ferdinand  
Zirkel, | Ö. Professor Der Mineralogie Und  
Geognosie An Der Universität Leipzig. | Mit 205  
Holzschnitten. | [tapered rule] | Leipzig, | Verlag  
Von W. Engelmann | 1873.

8°: [i]-viii, [1]-502, 2] p., illus. Includes  
bibliographical references and index.

CONTENTS: [i-ii], Half title page, "Die | Mikroskopis-  
che Beschaffenheit | der | Mineralien und Gesteine,"  
verso blank.; [iii-iv], Title page, verso "Das Recht ..."; [v]-  
vi, "Vorrede."—signe F. Zirkel, July 1873.; [vii]-viii, "In-  
haltsverzeichnis.;" [1]-496, Text.; [497]-502, "Register.;"  
[1 pg], "Nachtrag.;" [1 pg], Blank.

VERY SCARCE. "The year 1873 was signalized  
by the almost simultaneous appearance of two works,  
in which the two most distinguished masters in the  
domain of microscopically research comprised the  
quintessence of their investigations. Under the title,  
*Die mikroskopische Beschaffenheit der Mineralien und  
Felsarten* (Leipzig, 1873), Zirkel gives an introductory  
code of instructions as to the use of the microscope,  
examination by means of polarized light, and the  
methods of producing faithful illustrations. He then  
describes the microscopically structure of rock-forming  
minerals with special respect to the various kinds of  
inclusions and the products of decomposition. The  
optical and physical characteristics of mineral sections  
are next described; and the results obtained in the  
earlier chapters on minerals are applied in the latter half  
of the work, which is devoted to the mineral constitution  
and structural features of rock-varieties. The work is  
fully illustrated by woodcuts."—*Zittel*. The other book  
appeared under the authorship of Rosenbusch [q.v.].

REFERENCES: *Zittel, History of Geology*, 1901: p. 330-  
331.

*Elemente der Mineralogie*. Zehnte neubearbeitet Auflage.  
Von ... Ferdinand Zirkel. (Leipzig, 1877 and other editions).  
*See: Naumann, Georg Amadeus Carl Friedrich.*



ZITTEL

**ZITTEL, Karl Alfred von.** (BORN: Bahlingen, Baden,  
Germany, 25 September 1839; DIED: München, Bavaria,  
Germany, 5 January 1904) *German mineralogist,  
geologist & palaeontologist.*

Zittel was educated at Heidelberg, Paris and Vienna.  
For a short period he served on the Geological Survey of  
Austria, and was an assistant in the mineralogical museum  
at Vienna. In 1863 he became teacher of geology and  
mineralogy in the polytechnic at Karlsruhe, and three years  
later he became professor of paleontology in the University  
of Munich, with the charge of the state collection of fossils.  
In 1880 he was appointed to the geological professorship,  
and eventually to the directorship of the natural history  
museum of Munich. He was one of the greatest of the  
German geologist/paleontologists of the age. From 1899  
Zittel was president of the Royal Bavarian Academy of

Sciences, and in 1894 he was awarded the Wollaston medal by the Geological Society of London.

REFERENCES: *American Journal of Science*: 4th Series, **167** (1904), 252. • *Annual Report of the Smithsonian Institution*: 1904, 779-86, portrait. • Barr, *Index to Biographical Fragments*, 1973: 289. • *Bulletin de la Société Géologique de France*: 3rd Series, 4 (1904), 488-93. • Cleavelly, *World Palaeontological Collections*, 1983: 322. • DSB: **14**, 626-7 [by H. Hölder]. • *Encyclopaedia Britannica*, 11th edition. • *Földtani Közlöny*: **36** (1906), nos. 10-12, 371-88, portrait. • *Geological Magazine*: **41** (1904), no. 2, 90-6, portrait. • *Journal of Conchology*: **53** (1906), 478-81. • La Rocque, *History of Geology*, 1964: **1**, 130 [by J. Cornejo]. • Lambrecht & Quenstedt, *Catalogus*, 1938: 475. • *Naturw. Wochenschr.*, N.F.: **3** (1904), 359-61. • *Palaeontographica*: **50** (1904), 3-28, portrait. • Poggendorff: **3**, 1487-8 & 4, 1693. • *Proc. Verb. Soc. Tosc. Sci. Nat.*: **14** (1904), 40-2. • *Proceedings of the Geological Society*, London: 1903-4, lv-lix. • *Quarterly Journal of Geological Society of London*: **60** (1904), ??? • Sarjeant, *Geologists*, 1980: **3**, 2490-1. • Sarjeant, *Geologists*, Suppl. 2, 1995: **2**, 1226. • *Science*: **19** (1904), 117, 186-8. • *Verhandlungen Geologischen Reichsanstalt*, Wien: 1904, 45-7. • *Zeitschrift der Deutschen Geologischen Gesellschaft*: **56** (1904), 1-7.

### 5166. — German, 1899.

Geschichte | der | Geologie und Paläontologie | bis Ende des 19. Jahrhunderts. | Von Karl Alfred v. Zittel. | [In two columns separated by an ornament with the motto, "Gott und mein Volk."] Auf Veranlassung | und mit | Unterstützung | seiner Majestät | des Königs von Bayern | Maximilian II. | [ornament] | Herausgegeben | durch die | historische Commission | bei der | Königl. Academie der | Wissenschaften. | [rule] | München und Leipzig 1899. | Druck und Verlag von K. Oldenbourg.

8°:  $\pi^6$  1-53<sup>8</sup> 54<sup>10</sup>; 440 $\ell$ .; [i]-xi, [1], [1]-868 p., name index.

CONTENTS: [i-ii], Blank, verso series title page, "Geschichte der Wissenschaften in Deutschland ..."; [iii-iv], Title page, verso blank.; [v]-vii, "Vorwort"—signed Karl A. von Zittel, June 1899.; [viii], Blank.; [ix]-xi, "Inhalt.": [1 pg], Blank.; [1]-843, Text.; [844], Blank.; [845]-868, "Autoren-Verzeichniß."

VERY SCARCE. Published as volume 23 of the series, *Geschichte der Wissenschaften in Deutschland*, of which FRANZ VON KOBELL's *Geschichte der Mineralogie* (München, 1864) was issued as volume 2; however, Zittel's work has been more successful in that it covers a broader subject and it includes the necessary name index. Zittel divides his study into four periods. 1. The geological science of the ancients (pp. 1-12). 2. Beginnings of palaeontology and geology (pp. 13-75). 3. The heroic age of geology from 1790 to 1820 (pp. 46-215). 4. Newest developments of geology and palaeontology (pp. 216-843). Within the last period, the author has created seven sections. These are: Cosmological Geology, Physiographical Geology, Dynamic Geology, Topographical Geology, Stratigraphy, Petrology, and Palaeontology.

Facsimile reprint, 1964: New York, Johnson Reprint Corporation, 1964.

REFERENCES: BL. • BMC: **5**, 2395. • NUC.

**5167. English transl., 1901:** History of Geology | and Palaeontology | to the End of the Nineteenth Century | by | Karl Alfred von Zittel | Professor of Geology and Palaeontology in the University of Munich; | Director of the Natural History Museum of Munich; President | of the Bavarian Royal Academy of Sciences, etc. | Translated by | Maria M. Ogilvie-Gordon | D.Sc. (London), Ph.D. (Munich) | With Thirteen Portraits | London: | Walter Scott, Paternoster Square. | Charles Scribner's Sons, | 153-157 Fifth Avenue, New York. | 1901.

8°:  $\pi^8$  1-34<sup>8</sup> 35<sup>9</sup>  $\chi^6$ ; 295 $\ell$ .; [i]-xiii, [3], [1]-562, [12] p., 13 portraits. PAGE SIZE: 182 x 120 mm.

CONTENTS: [i-ii], Half title page, "The Contemporary Science Series" | [rule] | Edited by Havelock Ellis | History Of Geology And | Palaeontology," verso blank.; [Frontispiece].; [iii-iv], Title page, verso blank.; [v]-viii, "Preface."—signed Karl A. Von Zittel, June 1899.; [ix], "Translator's Note."—signed Maria M. Ogilvie-Gordon, October 1901.; [x], Blank.; [xi], Blank.; [xii]-xiii, "Contents.": [1 pg], Blank.; [1 pg], "Errata.": [1 pg], Blank.; [1]-541, Text.; [542], Blank.; [543]-558, "Index Of Authors.": [559]-562, "Index Of Subjects."—page 562, "Printed By Walter Scott, Newcastle-On-Type.": [12 pgs], "New Books | Imported By | Charles Scribner's Sons, | New York City."

PLATES: All of the thirteen photographic plates are unnumbered and unsigned. They all show portraits of famous geologists, with the name of the subject at the bottom of the each plate.

The plates in order are: Frontispiece, Karl von Zittel; facing p. 32, James Hutton; facing p. 80, J.B. de Lamarck; facing p. 112, Abraham Gottlob Werner; facing p. 160, Georges Cuvier; facing p. 208, Alexander von Humboldt; facing p. 256, Leopold von Buch; facing p. 304, Sir Roderick Murchison, after a portrait by S. Pearce; facing p. 352, Sir Charles Lyell, after a portrait by G. Richmond; facing p. 384, Sir Richard Owen; facing p. 432, Louis Agassiz; facing p. 480, Baron F. von Richthofen; facing p. 512, Professor Eduard Suess.

SCARCE. Translation by Maria M. Ogilvie-Gordon [see note below] from *Geschichte der Geologie und Paläontologie* (München & Leipzig, 1899), and published as part of the series, *The Contemporary Science Series*. In this translation, the very many footnotes that occur in the original are not present; however, this translation does contain thirteen good portraits not present in the original work.

Facsimile reprint, 1962: *History of Geology and Palaeontology to the End of the Nineteenth Century by Karl Alfred von Zittel*. London, Weldon & Wesley, 1962. 8°: xiii, [2], 562, 12 p., 13 portraits.

REFERENCES: BL. • BMC: **5**, 2395. • Hoover Collection: no. 909. • NUC.

### ZOUTEVEEN, Hartogh Heijs van. (BORN: 1841; DIED: 1893) Dutch mineralogist & naturalist.

REFERENCES: BAB: 297, 121-189. • Frederiks, J.G. and F.J. van den Branden, *Biographisch woordenboek der Noord- en Zuidnederlandsche letterkunde*. 2e, omgewerkte dr. Amsterdam, 1888-92. • WBI.

### 5168. — Dutch, 1882.

Handboek der Mineralogie, ten gebruike bij het middelbaar en hooger onderwijs. Tiel, 1882.

2 vols. [VOL 1] 8°: x, 252 p.; [VOL 2] 8°: 367 p., 11 lithographic plates.

VERY SCARCE. A handbook of mineralogy used in the schools of The Netherlands.

REFERENCES: BL.

**ZÜCKERT, Johann Friedrich.** (BORN: Berlin, Germany, 19 December 1737; DIED: 1778) *German physician.*



## ZÜCKERT

Zückert had a medical practice in Berlin and was the author of many books on medicine, balneology, and geology. He was a member of the Leopoldian Akademie in Berlin.

REFERENCES: Baldinger, *Biographien Ärzte*, 1768-71. • DBA: I 1419, 347-369. • Hirsching, *Historisch-literarisches Handbuch*, 1794-1815. • Lambrecht & Quenstedt, *Catalogus*, 1938: p. 475. • Meusel, *Verstorbenen Teutschen Schriftsteller*, 1802-16: 15, p. 472-474. • Ule & Knoblauch, *Leopoldinisch Akademie*, 1889: p. 163. • WBI.

### 5169. — German, 1762.

Die Naturgeschichte und Bergwercksverfassung des Ober-Hartzes. Berlin, F. Nicolai, 1762.

8°: [16], 300 p.

VERY SCARCE. Describes the mineral resources of the Harz mountains of Germany. It comprehensively describes the natural history of the region, emphasising the geology and mineral riches. The book has considerable interest for the descriptions of the iron- and copper-mines, the marble quarries, and the mineralogy of the region.

REFERENCES: BMC: 5, 2401. • Hoover Collection: no. 912. • *Katalog Bergakademie Freiberg*, 1879: p. 739 [IX. 375.]. • LKG: XIV 166. • NUC: 685, 365.

### 5170. — German, 1763.

Die Naturgeschichte einiger Provinzen des Unterharzes, nebst einem Anhang von dem mannsfeldischen Kupferschiefern. Berlin, F. Nicolai, 1763.

8°: [10], 212 p.

VERY SCARCE. A companion volume to the author's *Die Naturgeschichte und Bergwerksverfassung des Oberharzes* published in 1762. This work also describes the mineral resources of the Harz mountains of Germany in much the same manner as the previous work.

REFERENCES: BMC: 5, 2401. • Hoover Collection: no. 911. • *Katalog Bergakademie Freiberg*, 1879: p. 739 [IX. 376.]. • LKG: XIV 167a. • NUC: 685, 365.